ORDER NO. MD9002002A4

Service Manual

Stereo Radio Cassette Recorder

Radio Cassette

RX-CT830

- Please file and use this Service Manual together with the service manual for Model No. RX-CT830 Order No. MD8911064C1.
- This Service Manual indicates the main differences between; Original RX-CT830 [for (P) mark area] and RX-CT830 (PX).

Color

(K) . . . . . Black Type

Area

Country Code	Area	Color
(PX)	Far East PX and Europe PX	(K)

CHANGES

■ SPECIFICATIONS

General:
Power Requirement: AC; 120V, 60Hz

Power Consumption: 14W(AC only)

RX-CT830 (P) Original

➡

General:
Power Requirement: AC; 110~127V
200~220V
230~250V, 50/60Hz

Power Consumption: 15W(AC only)

RX-CT830 (PX)

■ PARTS COMPARISON TABLE

Notes:
1. Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
2. [M] Indicates parts that are supplied by MESA.

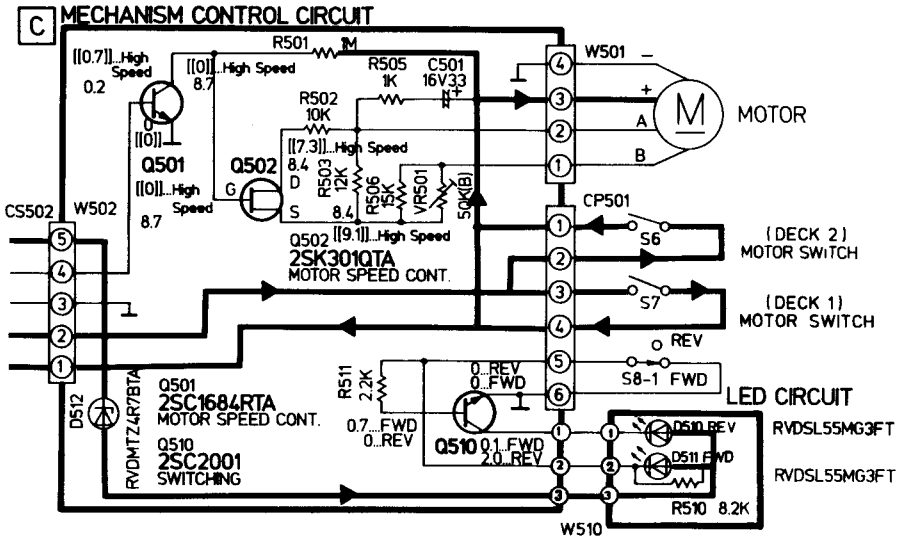
Ref. No.	Description	Part Number		Remarks
		RX-CT830 P (Original)	**RX-CT830 PX**	
RESISTOR				
R351	RESISTOR, 10Ω, 1/2W	—	**ERG1SJ100**	Added
CAPACITORS				
C355, 356	CAPACITOR, 0.01μF, 50V	—	**ECKT1H103ZF**	Added
C357	CAPACITOR, 220μF, 16V	—	**ECEA1CU221B**	Added
DIODES				
D355, 356 ⚠	DIODE	—	**RVD1SR35**	Added
D513	DIODE	—	**RVDMTZ7R5BTA**	Added
TRANSFORMER				
T501 ⚠	POWER TRANSFORMER ASS'Y	RWEXCT830P	**RWEXCT830PX**	Changed [M]
SWITCH				
S351 ⚠	VOLTAGE SELECTOR	—	**RSR3A01ZA-H**	Added
CABINET AND CHASSIS				
12	REAR CABINET ASS'Y	RYFXCT830P	**RYFXCT830PX**	Changed [M]
12C	NAME PLATE	RGT24SZA-0	**RGT24SWA-0**	Changed [M]
47	P.C.B.	RUP2540ZAC	**RUP2540XAC**	Changed [M]
52	SHIELD PLATE	RMC3SZB	**RMC1190ZA**	Changed
PACKING MATERIAL				
P4	POLYETHYLENE BAG	—	**XZB10X25A04**	Added
ACCESSORIES				
A1 ⚠	POWER CORD	RJA22X	**RJA21ZC-F**	Changed
A3 ⚠	AC CORD ADAPTER	—	**RJP120ZDS**	Added

Panasonic

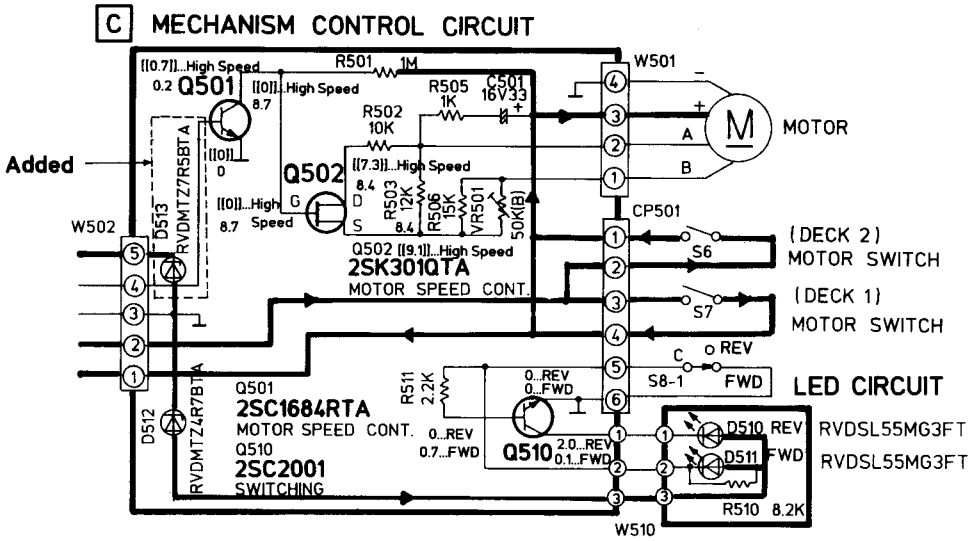
Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

Panasonic Tokyo Sales Department
Matsushita Electric Industrial Co., Ltd.
World Trade Center Bldg., 4-1, Hamamatsu-cho, 2-chome, Minato-ku, Tokyo 105, Japan

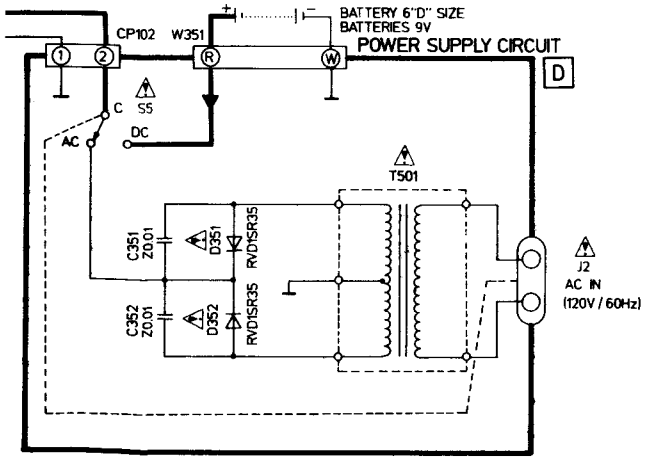
SCHEMATIC DIAGRAMS



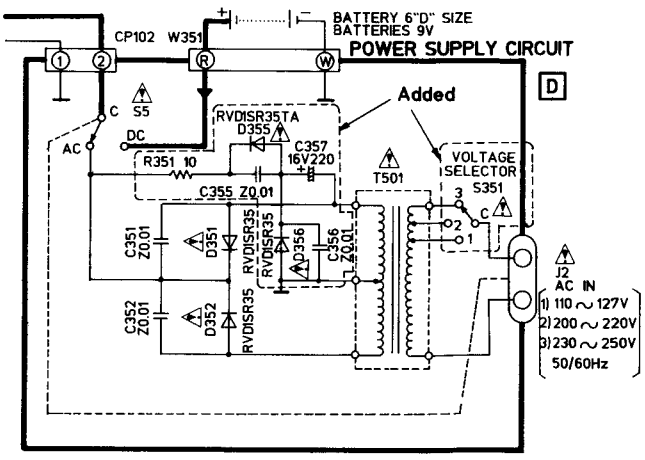
RX-CT830 (P) (Original)



RX-CT830 (PX)

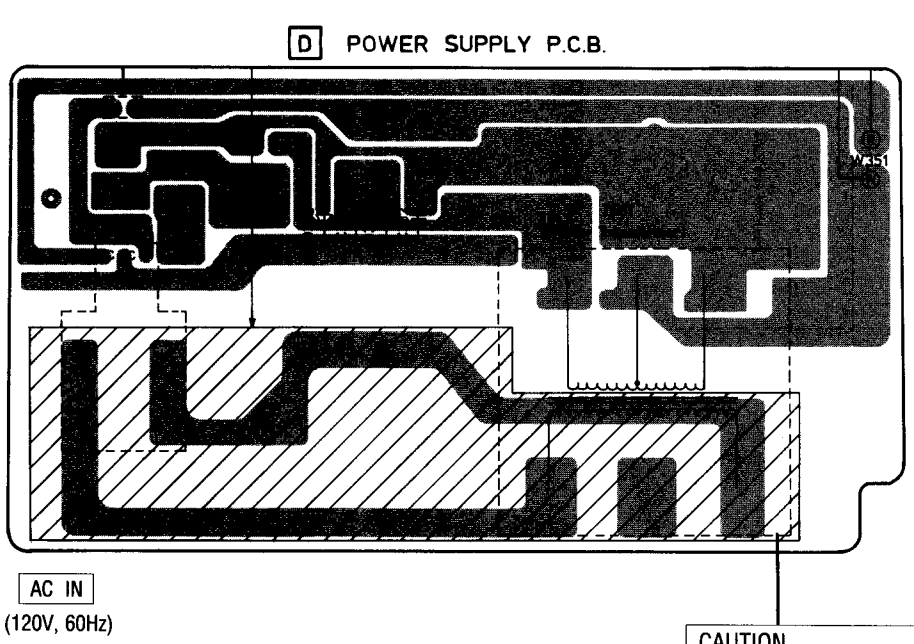


RX-CT830 (P) (Original)



RX-CT830 (PX)

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAMS



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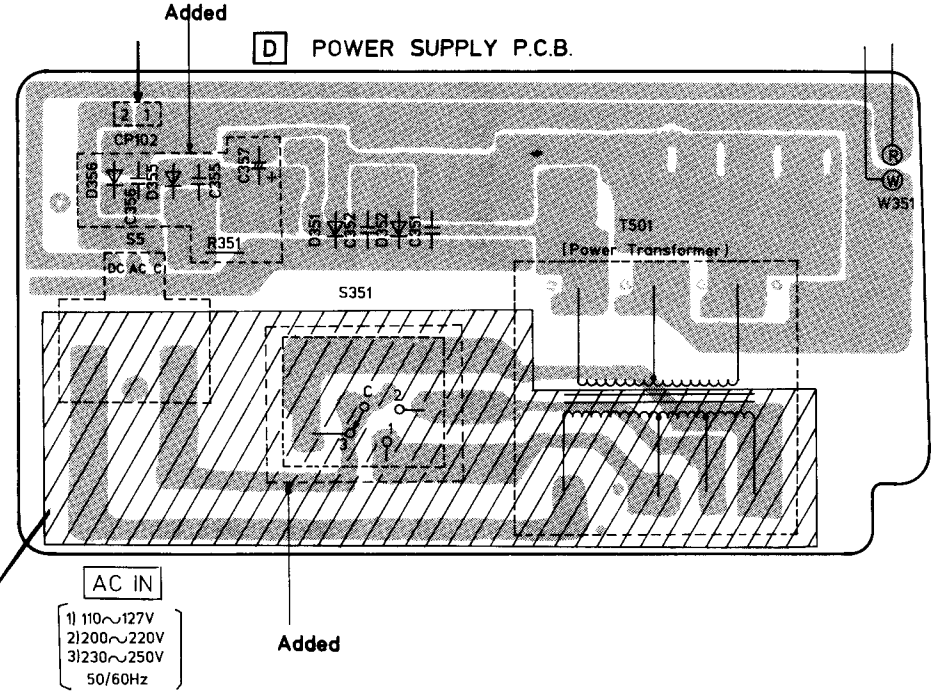
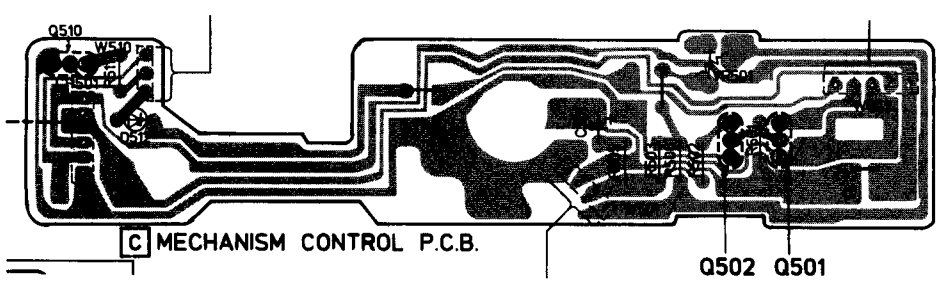


RX-CT830 (PX)



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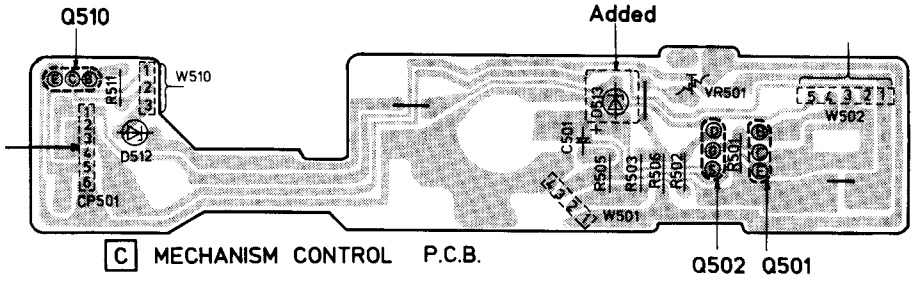
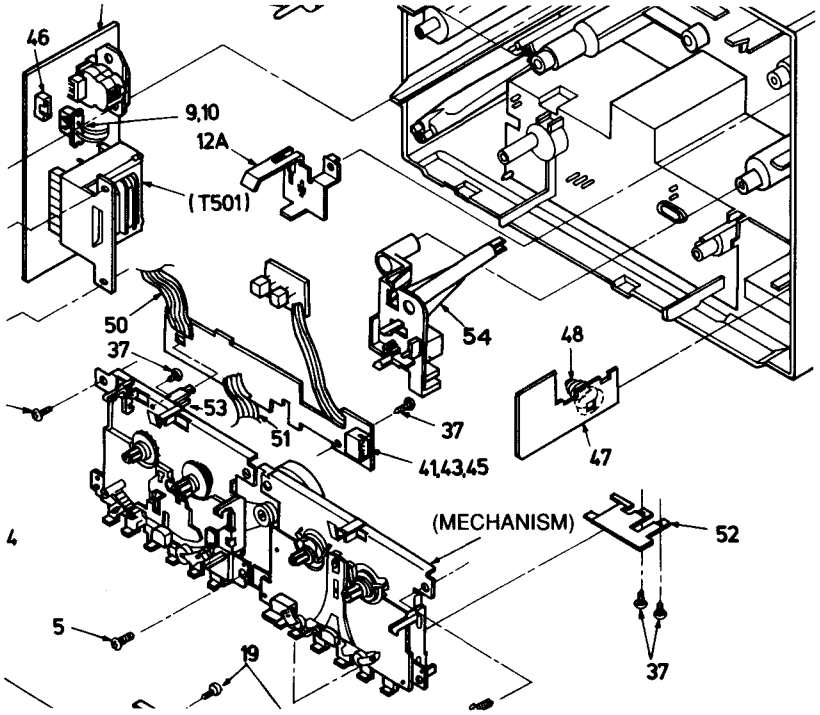
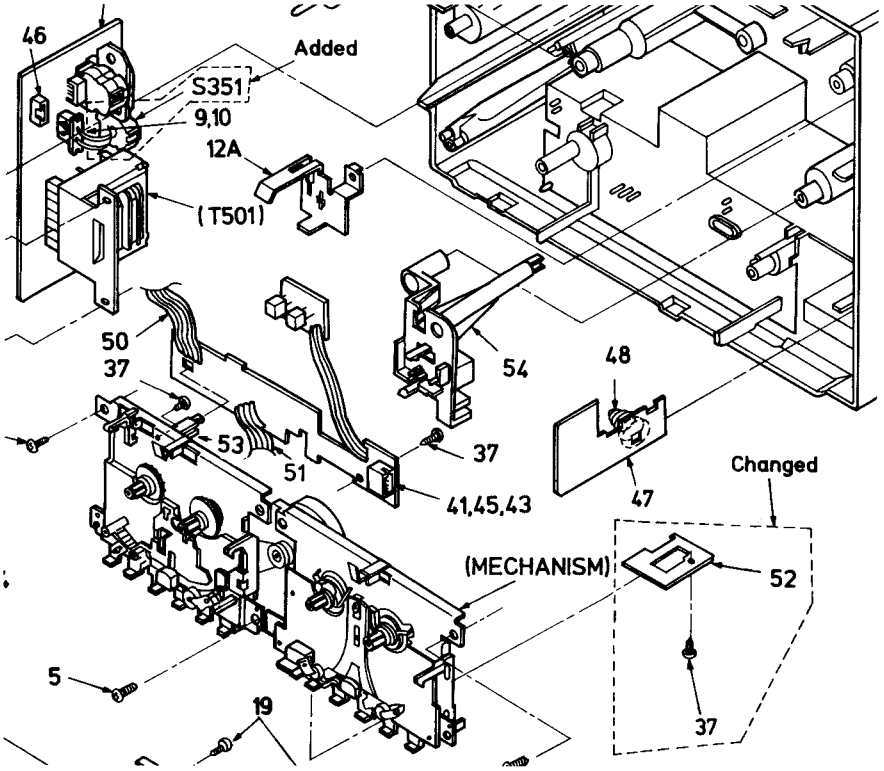


RX-CT830 (PX)

CABINET PARTS LOCATION



RX-CT830 (P) (Original)



RX-CT830 (PX)

MESA Printed in Singapore
VS900200500B/L/P/A

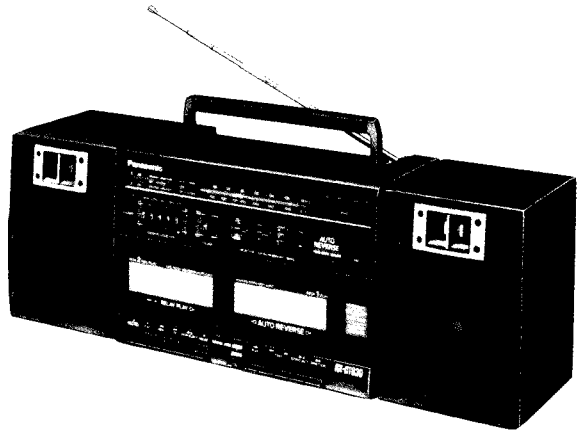
ORDER NO. MD8911064C1
A1

Service Manual

Radio Cassette

Stereo Radio Cassette Recorder

RX-CT830



Color

(K) . . . . . Black Type

Area

Country Code	Area	Color
(P)	U.S.A.	(K)
(PC)	Canada	

RX-CT950 MECHANISM SERIES (TN521)

■ SPECIFICATIONS

General:

Power Requirement:	AC; 120 V/60 Hz Battery; 9 V (Six "D" Side Batteries)
Power Consumption:	14 W (AC only)
Power Output:	8 W (4 W x 2) ... RMS (max.)
Speaker:	Woofer; $4^{3}/_{4}$" (12 cm) PM Dynamic Speaker (2.7Ω) Tweeter; $^{3}/_{4}$" (2 cm) Ceramic Speaker
Jacks:	
Input:	CD/LINE IN; 398 mV/47kΩ
Output:	EXT. SP; 2.7 ~ 8Ω HEADPHONES; 32Ω, ø3.5
Dimensions:	$22^{3}/_{4}$" (W) x $7^{13}/_{16}$" (H) x $6^{13}/_{16}$" (D) (578 x 199 x 173 mm) Main Unit; 12" (W) x $7^{13}/_{16}$" (H) x $6^{13}/_{16}$" (D) (305 x 199 x 173 mm) Speaker Box; $5^{11}/_{16}$" (W) x $7^{13}/_{16}$" (H) x 6" (D) (144 x 199 x 152 mm)
Weight:	8 lbs 3 oz (3.9 kg) without batteries

Radio Section:

Radio Frequency Range:	FM; 88 ~ 108 MHz AM; 525 ~ 1705 kHz
Intermediate Frequency:	FM; 10.7 MHz AM; 455 kHz
Sensitivity:	FM; 5 μV/50 mW output (–3 dB Limit Sens.) AM; 100 μV/m/50 mW output

Tape Deck Section:	**TAPE 1**
Frequency Response:	40 ~ 13,000 Hz
Tape Speed:	$1^{7}/_{8}$ ips (4.8 cm/s)
Track System:	4-track 2-channel stereo playback

Tape Deck Section:	**TAPE 2**
Frequency Response:	40 ~ 13,000 Hz
Recording System:	AC bias, Magnet erase
Tape Speed:	$1^{7}/_{8}$ ips (4.8 cm/s)
Track System:	4-track 2-channel stereo recording and playback

Notes:
1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic®

Matsushita Services Company
Division of Matsushita Electric
Corporation of America
50 Meadowland Parkway,
Secaucus, Ner Jersey 07094

Panasonic Sales Company
Division of Matsushita Electric
of Puerto Rico, Inc.
San Gabriel Industrial Park
65th Infantry Ave. Km. 9.5
Carolina, P.R. 00630

Matsushita Electric
of Canada Limited
5770 Ambler Drive, Mississauga,
Ontario, L4W2T3

SAFETY PRECAUTIONS (For U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

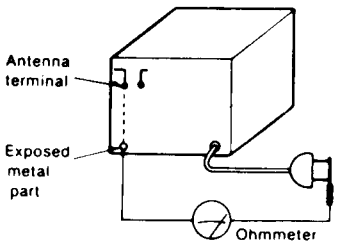


Fig. 1
Resistance = 3MΩ—5.2MΩ

INSULATION RESISTANCE TEST (For U.S.A.)

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts*. (Fig. 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. 2)
   ***Note:** Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

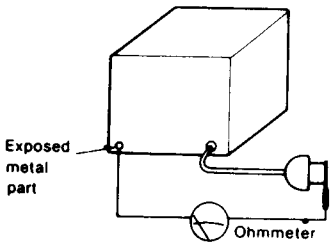
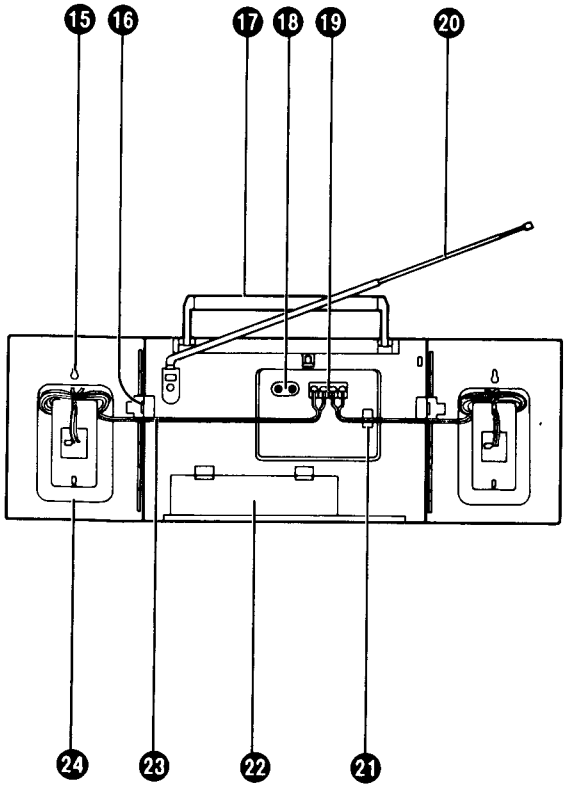


Fig. 2
Resistance = Approx ∞

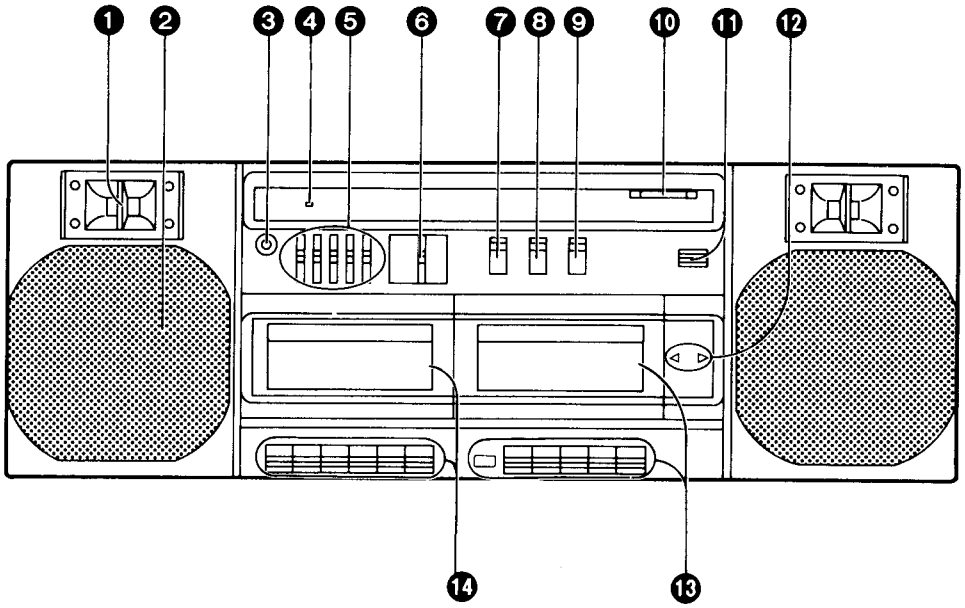
LOCATION OF CONTROLS AND COMPONENTS



⑮ Speaker Wall Mounts
⑯ Speaker Release Levers (RELEASE)
⑰ Handle
⑱ CD/Line Input Jacks (CD/LINE IN) (398mV/47kΩ)
⑲ Speaker Terminals [SPEAKER (IMP 2.7–8Ω)]
⑳ Telescopic Antenna
㉑ AC Socket (AC IN ~)
㉒ Battery Compartment
㉓ Speaker Cables
㉔ Speaker Cable Compartments

BATTERY SERVICE LIFE
UM-1 (D-size) Batteries
Approx. 24 hours of recording (EIAJ)
Approx. 12 hours of playback (EIAJ) with volume set at 3/4 position

The above battery service life is measured according to the conditions set forth by EIAJ (Electronic Industries Association of Japan). As the battery service life varies with the method of operation and environmental conditions, use these values as reference.



❶ Speakers (Tweeter) (2 cm)
❷ Speakers (Woofer) (12 cm, 2.7Ω)
❸ Headphones Jack (PHONES) (ø3.5, 32Ω)
❹ FM Stereo Indicator (FM STEREO)
❺ Graphic Equalizer Controls (GRAPHIC EQUALIZER)
❻ Volume Control (VOLUME)
❼ Function Selector (SELECTOR) (TAPE/POWER OFF, RADIO CD /LINE)
❽ Editing Selector/FM Mode Selector/ Beat Proof Switch (EDITING/FM MODE/B.P.)
❾ Band Selector (BAND)
❿ Tuning Control (TUNING)
⓫ Built-in Microphone (MIC)
⓬ Operation/Battery Check/Direction Indicators (OPERATION/BATT/REV • FWD)

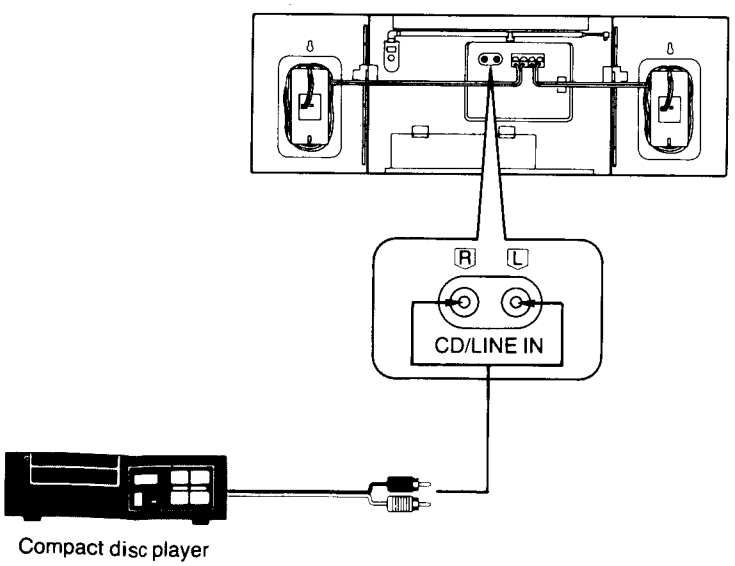
⓭ **Deck 1 (For Playback)**

Cassette Compartment
Direction Button (◀II▶ DIRECTION)
Stop/Eject Button (■/▲ STOP/EJECT)
Fast Buttons (◀◀ • ▶▶ FAST)
Playback Button (◀▶ PLAY)
Reverse Mode Selector (REVERSE MODE)

⓮ **Deck 2 (For Recording and Playback)**

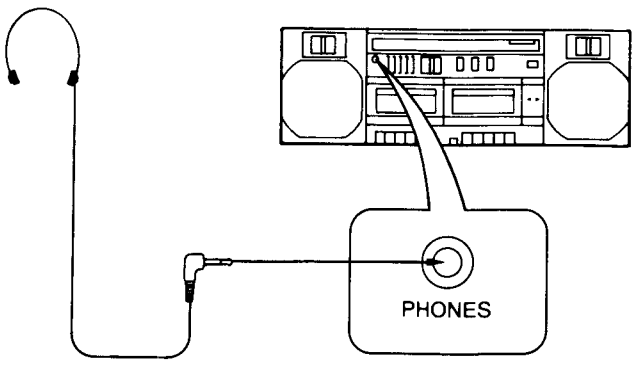
Cassette Compartment
Pause Button (❚❚ PAUSE)
Stop/Eject Button (■/▲ STOP/EJECT)
Fast Forward Button (▶▶ FF)
Rewind Button (◀◀ REW)
Playback Button (▶ PLAY)
Record Button (● RECORD)

Function Selector..."CD/LINE"



Compact disc player

Headphones
(EAH-S14, optional)

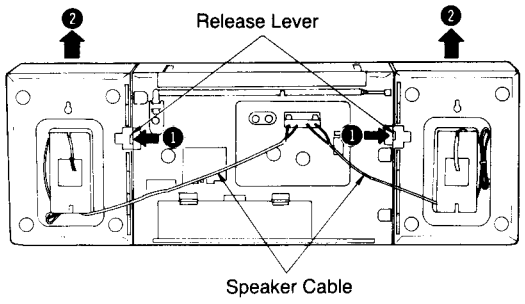


[M3 Type (Mini) Jack] ø3.5

- When using the headphones, avoid listening to sound at excessive volume levels, because it may injure your ears.
- Speakers are automatically cut off when the headphones are connected.

DISASSEMBLY INSTRUCTIONS

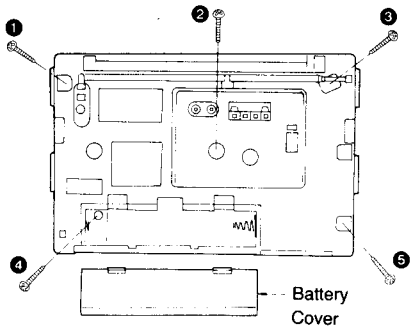
Ref. No. 1	Detaching the Speaker Box
Procedure 1	

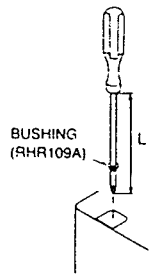


1. Unlock the release levers by pulling them in the direction of arrows ❶ and slide up each speaker in the direction of arrows ❷ .
2. Disconnect the speaker cable.

Ref. No. 2	Removal of the Front Cabinet
Procedure 1→2	

(Removal of Screws)
- Use a screwdriver similar to the one in the figure.



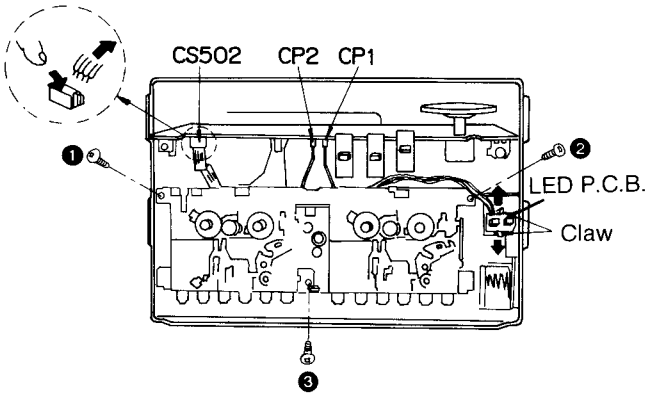


L = 150 mm or longer

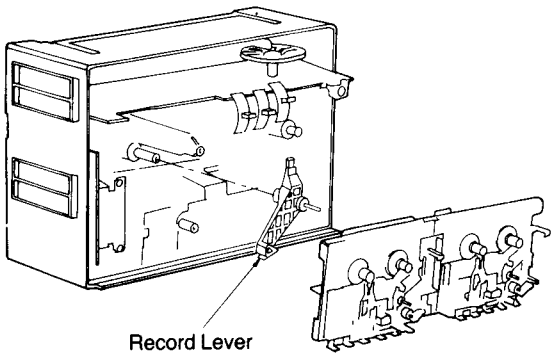
- If you attach a bushing (part number: RHR 109A) to the tip of the screwdriver as shown in the figure, the screwdriver tip will easily fit in the screw heads and you will be able to remove the screws with ease.

1. Open the battery cover.
2. Removes 5 screws (❶ ~ ❺).

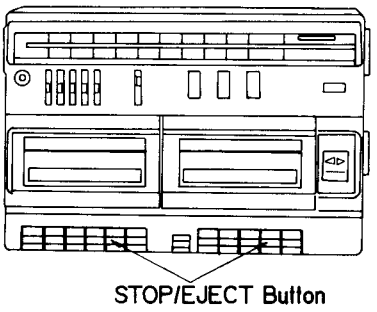
Ref. No. 3	Removal of the Mechanism
Procedure 1→2→3	



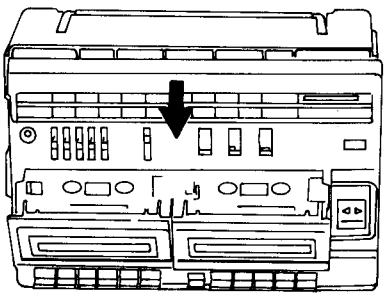
1. Remove 3 connectors (CP1, CP2, CS502).
2. Push the claws in the direction of arrows and remove the L.E.D. P.C.B.
3. Remove 3 screws (❶ ~ ❸).



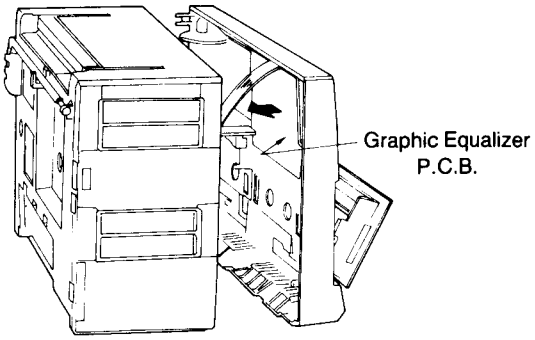
4. Remove the record lever.



3. Press the stop/eject button.

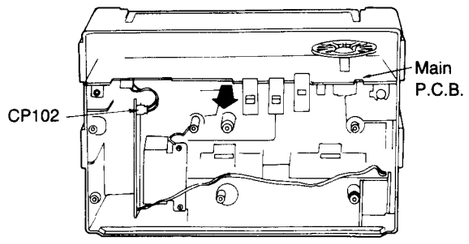


4. Remove the front cabinet.



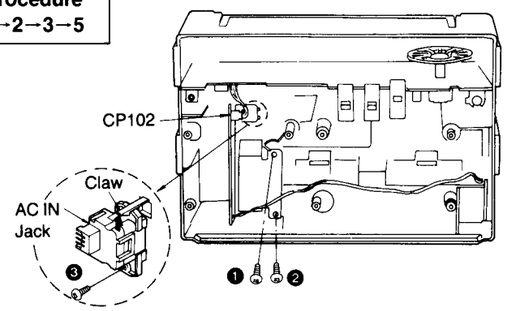
5. Remove the graphic equalizer P.C.B. in the direction of arrow.

Ref. No. 4	Removal of the Main P.C.B.
Procedure 1→2→3→4	



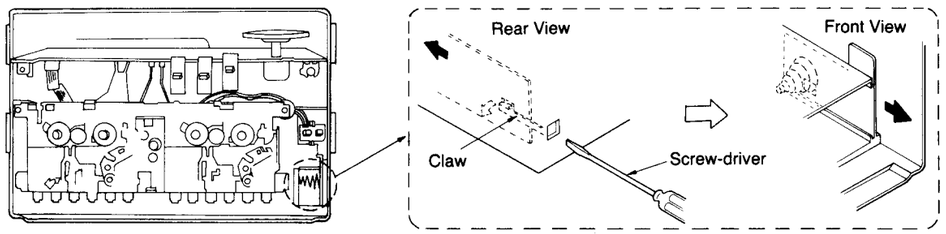
1. Remove the connector (CP102).
2. Pull out the main P.C.B.

Ref. No. 5	Removal of the Power P.C.B.
Procedure 1→2→3→5	



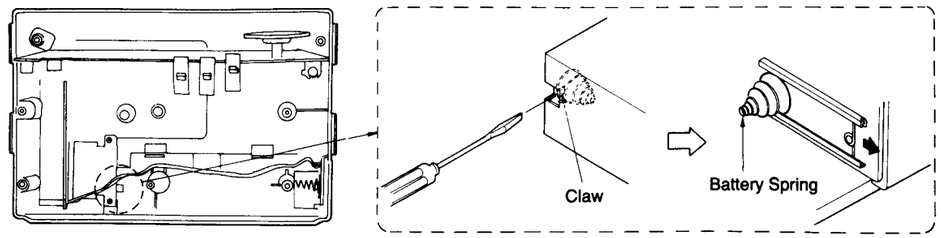
1. Remove the connector (CP102).
2. Remove 2 screws (❶, ❷).
3. Remove the screw (❸).
4. Push the claw in the direction of arrow and pull out the power P.C.B.

Ref. No. 6	Removal of the Battery P.C.B.
Procedure 1→2→6	



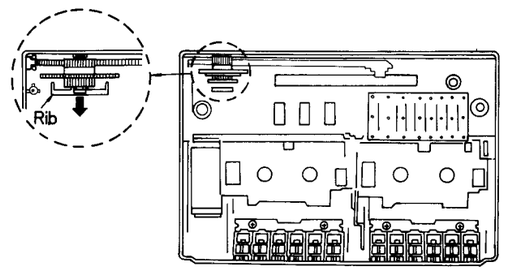
1. Push the claw.
2. Pull out the battery P.C.B.

Ref. No. 7	Removal of the Battery Spring
Procedure 1→2→3→7	



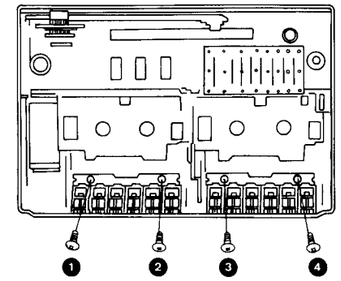
1. Push the claw.
2. Pull out the battery spring.

Ref. No. 8	Removal of the Tuning Knob
Procedure 1→2→8	



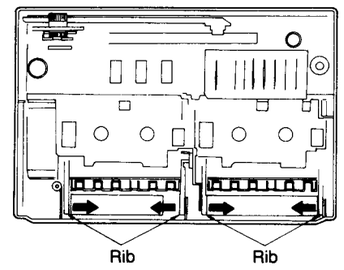
- Push the rib in the direction of arrow.

Ref. No. 9	Removal of the Mechanism Button
Procedure 1→2→9	



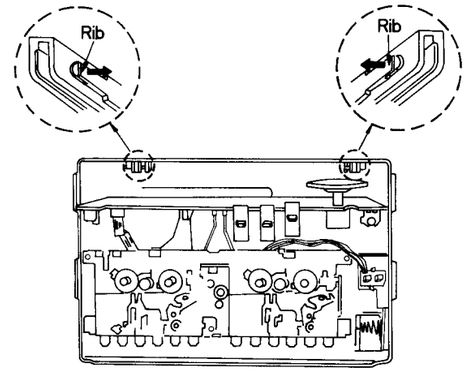
- Remove 4 screws (❶ ~ ❹).

Ref. No. 10	Removal of the Cassette Compartment
Procedure 1→2→9→10	



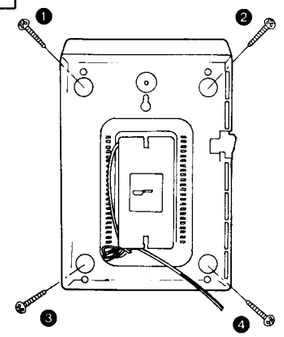
- Remove 4 ribs in the direction of arrows.

Ref. No. 11	Removal of the Handle
Procedure 1→2→11	



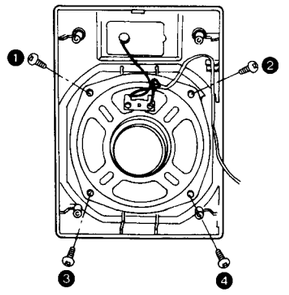
- Remove 2 ribs.

Ref. No. 12	Removal of the Speaker Rear Cabinet
Procedure 1→12	



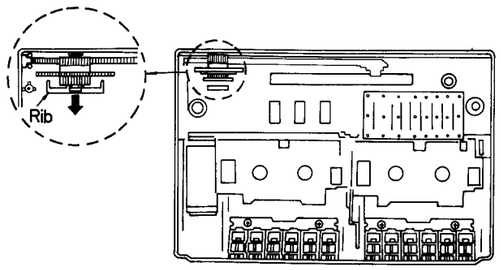
- Remove 4 screws (❶ ~ ❹).

Ref. No. 13	Removal of the Speaker (Woofer)
Procedure 1→12→13	



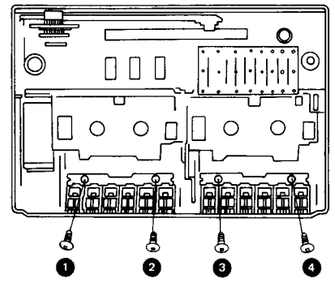
- Remove 4 screws (❶ ~ ❹).

Ref. No. 8	Removal of the Tuning Knob
Procedure 1→2→8	



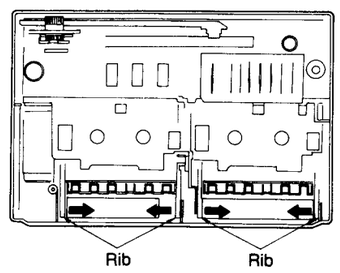
- Push the rib in the direction of arrow.

Ref. No. 9	Removal of the Mechanism Button
Procedure 1→2→9	



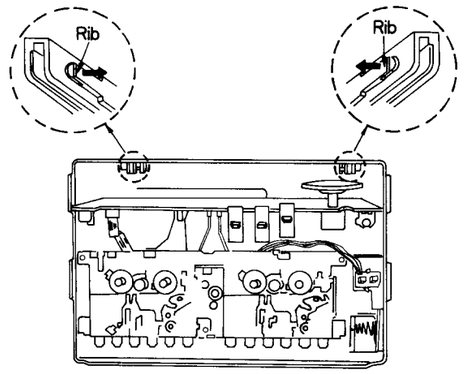
- Remove 4 screws (❶ ~ ❹).

Ref. No. 10	Removal of the Cassette Compartment
Procedure 1→2→9→10	



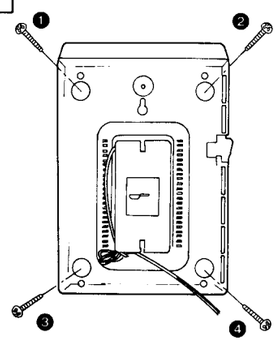
- Remove 4 ribs in the direction of arrows.

Ref. No. 11	Removal of the Handle
Procedure 1→2→11	



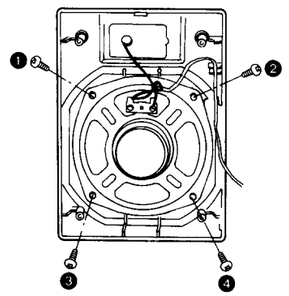
- Remove 2 ribs.

Ref. No. 12	Removal of the Speaker Rear Cabinet
Procedure 1→12	



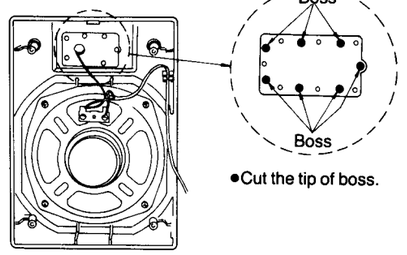
- Remove 4 screws (❶ ~ ❹).

Ref. No. 13	Removal of the Speaker (Woofer)
Procedure 1→12→13	

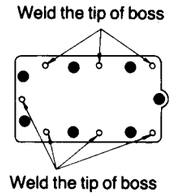


- Remove 4 screws (❶ ~ ❹).

Ref. No. 14	Removal of the Speaker (Tweeter)
Procedure 1→12→14	

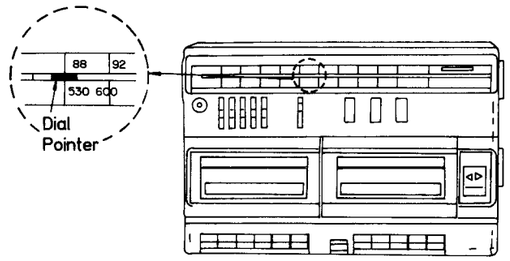


●Cut the tip of boss.

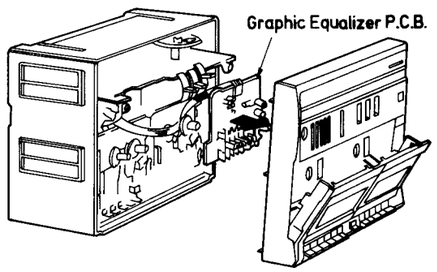


When replacing the tweeter, attach the tweeter to the speaker cabinet by welding it to the remainder of the boss.

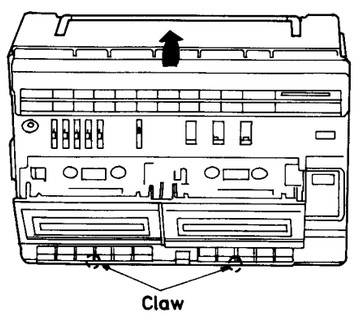
■ FRONT CABINET ASSEMBLY



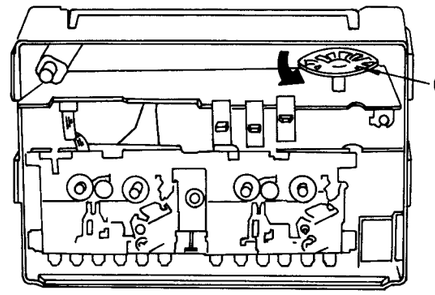
1. Line up the dial pointer in the front cabinet assembly with the "0" point graduation as shown in figure.



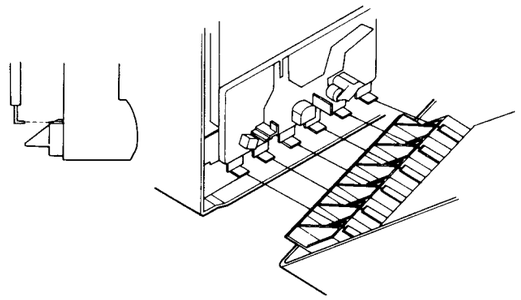
3. Assemble the front cabinet and graphic equalizer P.C.B.



5. Replace the front cabinet.

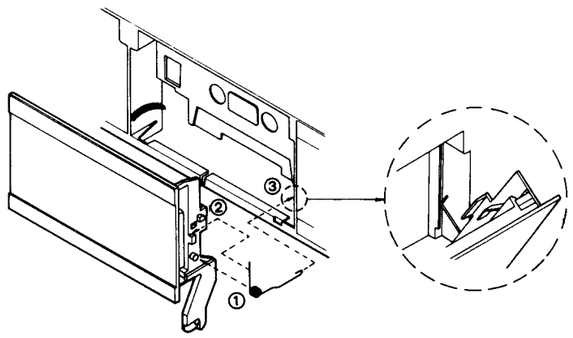


2. Turn the gear on the main P.C.B. all the way in the direction of arrow.



4. Assemble the front cabinet match mechanism button and mechanism lever.

■ CASSETTE COMPARTMENT ASSEMBLY



RX-CT830 RX-CT83

SCHEMATIC DIAGRAM

: FM SIGNAL LINE : PLAYBACK SIGNAL LINE : RECOR

A MAIN CIRCUIT

B GRAPHIC EQUALIZER CIRCUIT

C MECHANISM CONTROL CIRCUIT

IC1 AN7205 FM FRONT END

IC2 BA4236L FM/AM IF, DET, AF AMP & AM MIX, OSC

IC3 RVIBA1332L FM MPX

IC4 AN7312 PRE AMP

IC5 BA3822L GRAPHIC E

IC6 LA4108R POWER AMP

Q100, Q101 2SC1684STA P.B EQ AMP

Q102 2SC1684RTA SWITCHING (HIGH SPEED)

Q200, Q201 2SC1684STA P.B EQ AMP

Q202 2SC1684RTA SWITCHING (HIGH SPEED)

Q300 2SC1684RTA SWITCHING (BEAT PROOF)

Q301 2SC1684STA BIAS OSC

Q303 2SC1684STA MIC AMP

Q304 2SC1684RTA POWER SUPPLY (MIC +B)

Q305 2SC2001 REGULATOR

Q501 2SC1684RTA MOTOR SPEED CONT.

Q502 2SK301QTA MOTOR SPEED CONT.

Q510 2SC2001 SWITCHING

TELESCOPIC ANTENNA

CD / LINE IN

398mV, 47KΩ

DECK 1

PLAYBACK HEAD

DECK 2

REC / PLAY HEAD

ERASE HEAD

BUILT-IN MIC

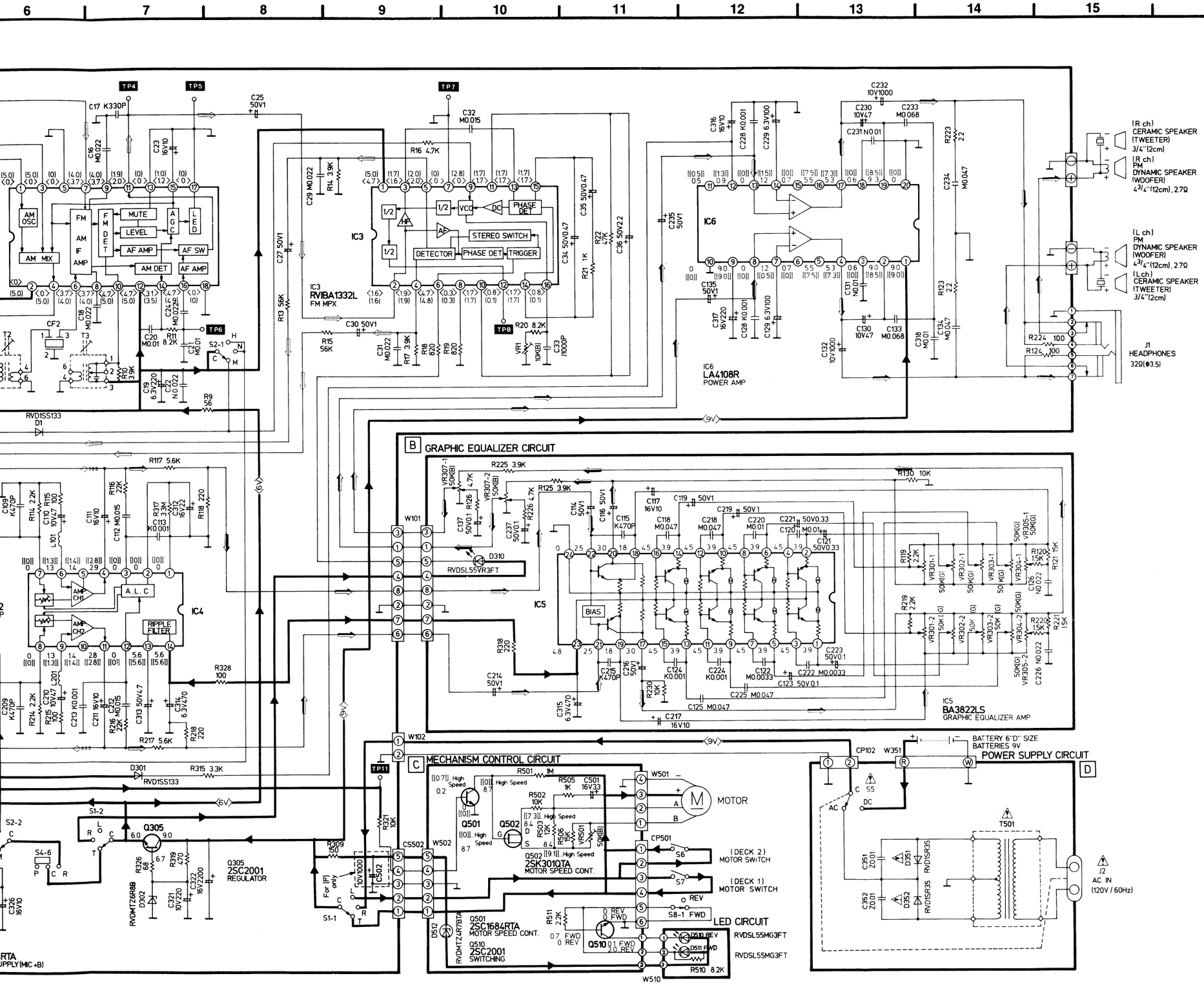
MOTOR

{DECK 2} MOTOR SWITCH

{DECK 1} MOTOR SWITCH

LED CIRCUIT

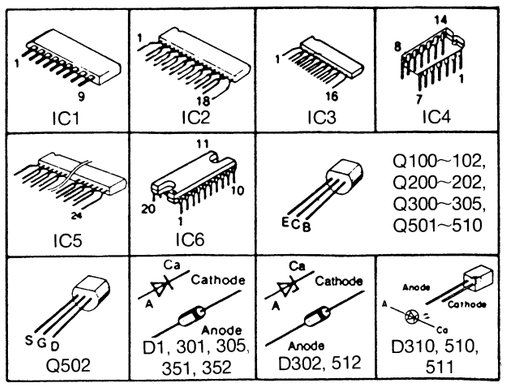
: FM SIGNAL LINE : PLAYBACK SIGNAL LINE : RECORD SIGNAL LINE : MAIN (FM/PLAYBACK) SIGNAL LINE : +B LINE



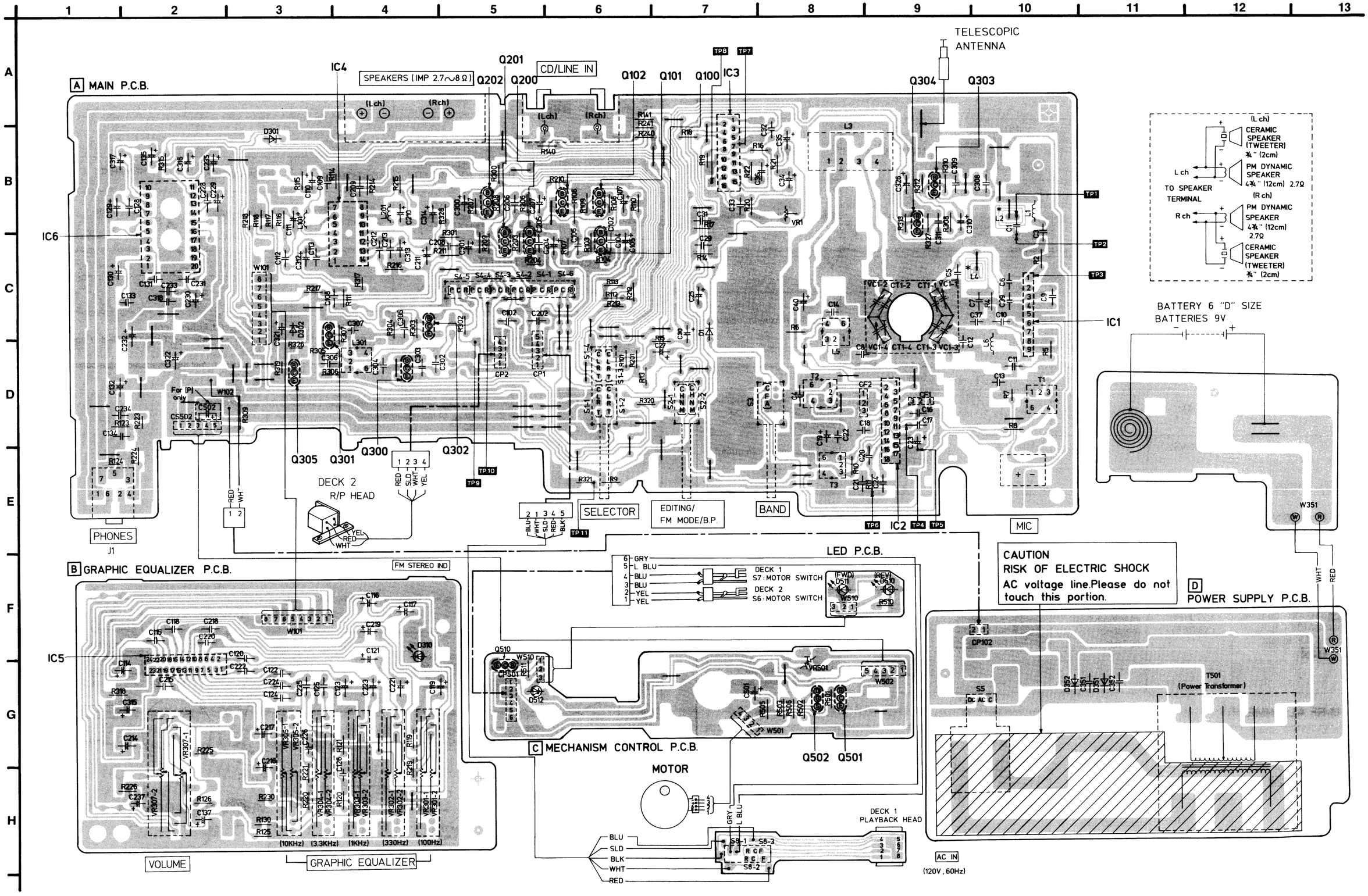
NOTES:

1. S1-1 ~ S1-4: Function select switch in "TAPE/POWER OFF " position. (T ... TAPE/POWER OFF, R ... RADIO, L ... CD /LINE)
2. S2-1, S2-2: Editing/FM mode select switch in "MIC" position. (M ... MIC/MONO/▮, N ... NORMAL/STEREO/▮▮, H ... HIGH/STEREO/▮▮)
3. S3: Band select switch in "FM" position. (F ... FM, A ... AM)
4. S4-1 ~ S4-6: Record/Playback switch in "PLAYBACK" position. (R ... RECORD, P ... PLAYBACK)
5. S5: AC/DC select switch in "AC" position.
6. S6: DECK 2 motor switch.
7. S7: DECK 1 motor switch.
8. S8-1 ~ S8-3: Reverse mode select switch in "FORWARD" position. (FWD . . . FORWARD, REV . . . REVERSE)
9. VR1: FM VCO adjustment VR.
10. VR301-1, VR301-2: Graphic equalizer VR (100 Hz).
11. VR302-1, VR302-2: Graphic equalizer VR (330 Hz).
12. VR303-1, VR303-2: Graphic equalizer VR (1 kHz).
13. VR304-1, VR304-2: Graphic equalizer VR (3.3 kHz).
14. VR305-1, VR305-2: Graphic equalizer VR (10 kHz).
15. VR307-1, VR307-2: Volume control VR.
16. VR501: Tape speed adjustment VR.
17. Battery Current:
    Vol. min. ..... 90mA (Radio)
    Vol. min..... 170mA (Playback)
    Vol. max. ..... 310mA (Radio)
    Vol. max. ..... 450mA (Playback)
    Vol. max. ..... 550mA (Recording)
    Measurement condition:
    [Radio: FM 60 dB, 30% Mod.
    AM 74 dB/m, 30% Mod.
    Tape: 315 Hz, 0 dB]
18. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    < > . . . FM ( ) . . . AM
    [[ ]] . . . RECORD No mark . . . PLAYBACK
19. Important safety notice:
    Components identified by ⚠ mark have special characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.
20. The mark (■) shows test point e.g. TP1 = test point 1

This schematic diagram may be modified at any time with the development of new technology.



CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
1. Set Volume control to maximum. 2. Set FM mode selector switch to FM ST. 3. Set band switch to AM or FM. 4. Set function selector to RADIO or TAPE.	5. Set power source voltage to 9 V DC. 6. Set G.E.Q. control to center. 7. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2. and then connect the lead wires of the plug to the measuring instrument.)	T2 (AM IFT)	Adjust for maximum output.

■ AM-RF ALIGNMENT

Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	511 kHz	Tuning capacitor fully closed.	"	L5 (AM OSC Coil)	Adjust for maximum output.
"	1,753 kHz	Tuning capacitor fully open.	"	CT1-4 (AM OSC Trimmer)	"
"	600 kHz	Tune to signal	"	(*1) L3 (AM ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil along the ferrite core.
"	1,500 kHz	"	"	CT1-2 (AM ANT Trimmer)	Adjust for maximum output.
(*1) Fix antenna coil with wax after completing alignment.					

■ FM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
CONNECTIONS	FREQUENCY				
Connect to test point TP3 through ceramic capacitor (0.001μF) Negative side to test point TP2.	10.7 MHz (SWEEP)	Point of interference (on/about 90 MHz)	Connect vert. amp. scope to test point TP4 Negative side to test point TP5	T1 (FM 1st)	Adjust for maximum amplitude. (Refer to Fig. 3)
"	"	"	"	T3 (FM 2nd)	Adjust for maximum amplitude. (Refer to Fig. 4.)

■ FM-RF ALIGNMENT

Connect to test point TP1 through FM dummy antenna. Negative side to test point TP2	86.2 MHz	Variable capacitor fully closed.	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2. and then connect the lead wires of the plug to the measuring instrument.)	L6 (FM OSC coil)	(*2) Adjust for maximum output.
"	109.2 MHz	Variable capacitor fully open.	"	CT1-3 (FM OSC Trimmer)	"
"	106 MHz	Tune to signal	"	CT1-1 (FM ANT Trimmer)	"
(*2) Three output responses will be present; proper tuning is the center frequency.					

■ SEPARATION ALIGNMENT

FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
98 MHz, 60 dB (CW) Connect to test point TP1 through FM dummy antenna. Negative side to TP2	TP8 . . . (+) TP7 . . . (–)	VR1	19 kHz	Adjust VR1, for 19 kHz±50 Hz reading on frequency counter.

■ HEAD AZIMUTH ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC VOLTMETER OR OSCILLOSCOPE	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCFM (8 kHz,–20 dB)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2. and then connect the lead wires of the plug to the measuring instrument.)	Azimuth screw (Shown in Fig. 5)	Maximum output	• Playback mode

■ TAPE SPEED ADJUSTMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
QZZCWAT (3 kHz)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2. and then connect the lead wires of the plug to the measuring instrument.)	VR501 (Shown in Fig. 6)	**Normal Speed Adjustment** 1. Insert a test tape (QZZCWAT) in Deck 1 and play it back. 2. Ajust **VR501** until the measured value becomes **3000 $^{+90}_{-60}$ Hz** 3. Check Deck 2 in the same way to make sure it satisfies the specification. Deck 2. . . **$^{+70}_{-30}$ Hz** of the speed of Deck 1. If it doesn't repeat steps 1 and 2 above. **Note:** This set uses one drive motor, so be sure to perform the adjustment in Deck 1. **High Speed Measurement** 4. Insert the playback tape into Deck 1 and the editing tape into Deck 2. 5. Set the Editing Mode Selector to the "HIGH" position. 6. Press the Deck 2 Pause button, then press the Record Button. 7. Press the Deck 1 Playback Button. •Editing is started by means of the Synchro-Start function. 8. Check be sure that the measured speed is at least **1.7 times** faster than normal speed.

■ Alignment POINT

•Please refer to Circuit Board and Wiring Connection Diagram for test point location.

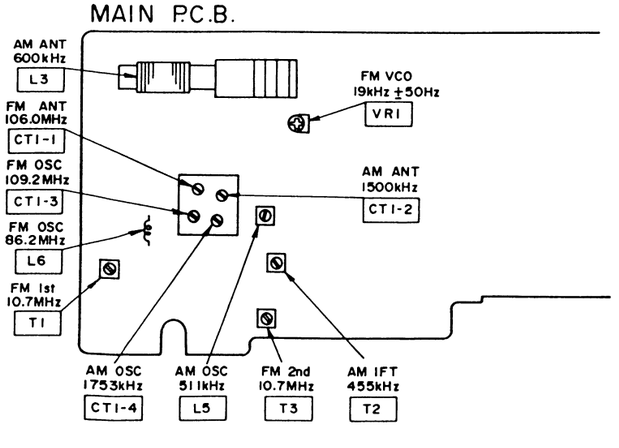


Fig. 1

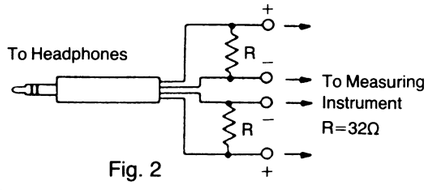


Fig. 2

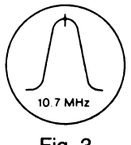


Fig. 3

Fig. 4

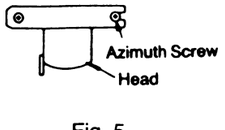


Fig. 5

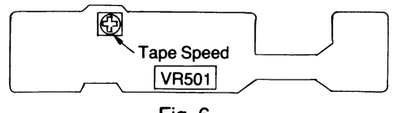


Fig. 6

■ RESISTORS & CAPACITORS

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)
Parts without these indications can be used for all areas.

Numbering System For Resistors

Example:

ERD	25	F	J	102
Type	Wattage (1/4W)	Shape	Tolerance	Value (1KΩ)
ERX	2	AN	J	471
Type	Wattage (2W)	Shape	Tolerance	Value (470Ω)

Numbering System For Capacitors

Example:

ECKD	1H	102	Z	F
Type	Voltage (50V)	Value (0.001μF)	Tolerance	Unique
ECEA	50	M		330
Type	Voltage (50V)	Characteristics		Value (33μF)

- Capacity values are in microfarads (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F).
- Resistance values are in ohms (Ω), unless specified otherwise, 1K=1,000Ω, 1M=1,000kΩ

Resistor Type	Wattage		Tolerance
ERD : Carbon	10 : 1/8W	12 : 1/2W	J : ±5%
ERG : Metal Oxide	14 : 1/4W	25 : 1/4W	F : ±1%
ERQ : Fuse Type Metal	1A : 1W	18 : 1/8W	G : ±2%
ERX : Metal Film	S2 : 1/4W	S1 : 1/2W	J : ±5%
ERD L : Carbon (chip)	2F : 1/4W	50 : 1/2W	K : ±10%
ERO K : Metal Film (chip)	2A : 2W	3A : 3W	M : ±20%
ERC : Solid	6G : 1/10W	8G : 1/8W	
ERF : Incombustible Box-Shaped			
ERM : Wire-Wound			
RRJ : Chip Resistor			
ERJ : Chip Resistor			

Capacitor Type	Voltage		Tolerance
ECE : Electrolytic	0J : 6.3V	1A : 10V	K : ±10%
ECCD : Ceramic	1C : 16V	1E : 25V	M : ±20%
ECKD : Ceramic Capacitor	1H : 50V	1V : 35V	Z : +80% -20
ECQM : Polyester	50 : 50V	05 : 50V	J : ±5%
ECQP : Polypropylene	2H : 500V	2A : 100V	G : ±2%
ECG : Ceramic	1 : 100V	1J : 63V	F : ±1%
ECEA N : Non Polar Electrolytic	KC: 400V AC		C : ±0.25pF
QCU : Ceramic (Chip Type)	KC: 125V AC (UL)		D : ±0.5pF
ECUX : Ceramic (Chip Type)			
ECF : Semiconductor			
EECW : Liquid electrolyte double layer capacitor			

Ref. No.	Part No:	Value		Ref. No.	Part No.	Value		Ref. No.	Part No.	Value	
RESISTORS (VALUE, WATTAGE)				R141	ERDS2TJ151	150	1/4	R326	ERDS2TJ680	68	1/4
R2	ERDS2TJ220T	22	1/4	R201	ERDS2TJ152	1.5K	1/4	R327	ERDS2TJ332	3.3K	1/4
R4	ERDS2TJ101	100	1/4	R203	ERDSS2TJ335T	3.3M	1/4	R328	ERDS2TJ101	100	1/4
R5	ERDS2TJ4R7	4.7	1/4	R204	ERDS2TJ470	47	1/4	R501	ERDS2TJ105	1M	1/4
R6	ERDS2TJ470	47	1/4	R206	ERDS2TJ273	27K	1/4	R502	ERDS2TJ103	10K	1/4
R7	ERDS2TJ221	220	1/4	R207	ERDS2TJ122	1.2K	1/4	R503	ERDS2TJ123	12K	1/4
R8	ERDS2TJ101	100	1/4	R208	ERDS2TJ821	820	1/4	R505	ERDS2TJ102	1K	1/4
R9	ERDS2TJ560T	56	1/4	R209	ERDS2TJ152	1.5K	1/4	R506	ERDS2TJ153	15K	1/4
R10	ERDS2TJ392	3.9K	1/4	R210	ERDS2TJ152	1.5K	1/4	R510	ERDS2TJ822	8.2K	1/4
R11	ERDS2TJ822	8.2K	1/4	R211	ERDS2TJ153	15K	1/4	R511	ERDS2TJ222	2.2K	1/4
R13	ERDS2TJ563T	56K	1/4	R212	ERDS2TJ683	68K	1/4				
R14	ERDS2TJ392	3.9K	1/4	R213	ERDS2TJ472	4.7K	1/4				
R15	ERDS2TJ563T	56K	1/4	R214	ERDS2TJ222	2.2K	1/4				
R16	ERDS2TJ472	4.7K	1/4	R215	ERDS2TJ101	100	1/4				
R17	ERDS2TJ392	3.9K	1/4	R216	ERDS2TJ223	22K	1/4				
R18	ERDS2TJ821	820	1/4	R217	ERDS2TJ562	5.6K	1/4				
R19	ERDS2TJ821	820	1/4	R218	ERDS2TJ221	220	1/4				
R20	ERDS2TJ822	8.2K	1/4	R219	ERDS2TJ222	2.2K	1/4				
R21	ERDS2TJ102	1K	1/4	R220	ERDS2TJ152	1.5K	1/4				
R22	ERDS2TJ473	47K	1/4	R221	ERDS2TJ153	15K	1/4				
R101	ERDS2TJ152	1.5K	1/4	R223	ERDS2TJ2R2	2.2	1/4				
R103	ERDS2TJ335T	3.3M	1/4	R224	ERDS2TJ101	100	1/4				
R104	ERDS2TJ470	47	1/4	R225	ERDS2TJ392	3.9K	1/4				
R106	ERDS2TJ273	27K	1/4	R226	ERDS2TJ472	4.7K	1/4				
R107	ERDS2TJ122	1.2K	1/4	R230	ERDS2TJ103	10K	1/4				
R108	ERDS2TJ821	820	1/4	R240	ERDS2TJ473	47K	1/4				
R109	ERDS2TJ152	1.5K	1/4	R241	ERDS2TJ151	150	1/4				
R110	ERDS2TJ152	1.5K	1/4	R300	ERDS2TJ473	47K	1/4				
R111	ERDS2TJ153	15K	1/4	R301	ERDS2TJ102	1K	1/4				
R112	ERDS2TJ683	68K	1/4	R302	ERDS2TJ562	5.6K	1/4				
R113	ERDS2TJ472	4.7K	1/4	R303	ERDS2TJ561	560	1/4				
R114	ERDS2TJ222	2.2K	1/4	R304	ERDS2TJ102	1K	1/4				
R115	ERDS2TJ101	100	1/4	R305	ERDS2TJ223	22K	1/4				
R116	ERDS2TJ223	22K	1/4	R306	ERDS2TJ101	100	1/4				
R117	ERDS2TJ562	5.6K	1/4	R307	ERDS2TJ6R8T	6.8	1/4				
R118	ERDS2TJ221	220	1/4	R308	ERDS2TJ332	3.3K	1/4				
R119	ERDS2TJ222	2.2K	1/4	R309	ERG12SJ151P	150	1/2				
R120	ERDS2TJ152	1.5K	1/4	R310	ERDS2TJ334	330K	1/4				
R121	ERDS2TJ153	15K	1/4	R312	ERDS2TJ102	1K	1/4				
R123	ERDS2TJ2R2	2.2	1/4	R313	ERDS2TJ104	100K	1/4				
R124	ERDS2TJ101	100	1/4	R315	ERDS2TJ332	3.3K	1/4				
R125	ERDS2TJ392	3.9K	1/4	R317	ERDS2TJ335T	3.3M	1/4				
R126	ERDS2TJ472	4.7K	1/4	R318	ERDS2TJ221	220	1/4				
R130	ERDS2TJ103	10K	1/4	R319	ERDS2TJ471	470	1/4				
R140	ERDS2TJ473	47K	1/4	R320	ERDS2TJ223	22K	1/4				
				R321	ERDS2TJ103	10K	1/4				

Ref. No.	Part No.	Value		Ref. No.	Part No.	Value		Ref. No.	Part No.	Value	
C40	ECEA1HU2R2	2.2	50	C135	ECEA1HU010	1	50	C233	ECFT1C683MD	0.068	16
C102	RCBS1H471KB	470P	50	C137	ECEA1HU0R1	0.1	50	C234	ECFT1C473MD	0.047	16
C104	ECEA1H010B	1	50	C202	RCBS1H471KB	470P	50	C235	ECEA1HU010	1	50
C105	RCBS1H681KBY	680P	50	C204	ECEA1HU010	1	50	C237	ECEA1HU0R1	0.1	50
C106	ECFT1C104KDY	0.1	16	C205	RCBS1H681KBY	680P	50	C300	ECEA1CU100	10	16
C107	ECEA1CU100	10	16	C206	ECFT1C104KDY	0.1	16	C301	ECEA0JU221	220	6.3
C108	RCBS1H102KB	0.001	50	C207	ECEA1CU100	10	16	C302	ECCT1H181K	180P	50
C109	RCBS1H471KB	470P	50	C208	RCBS1H102KB	0.001	50	C303	ECKT1H103ZF	0.01	50
C110	ECEA1AU470B	47	10	C209	RCBS1H471KB	470P	50	C304	ECQP1272JZ	2700P	100
C111	ECEA1CU100	10	16	C210	ECEA1AU470	47	10	C305	ECEA0JU221	220	6.3
C112	RCBS0J153MYY	0.015	6.3	C211	ECEA1CU100	10	16	C306	RCBS1C682MX	0.0068	16
C113	RCBS1H102KB	0.001	50	C212	RCBS0J153MYY	0.015	6.3	C307	RCBS1H102KB	0.001	50
C114	ECEA1HU010	1	50	C213	RCBS1H102KB	0.001	50	C308	ECFT1C473MD	0.047	16
C115	RCBS1H471KB	470P	50	C214	ECEA1HU010	1	50	C309	RCBS1H102KB	0.001	50
C116	ECEA1HU010	1	50	C215	RCBS1H471KB	470P	50	C310	ECEA1HU010	1	50
C117	ECEA1CU100	10	16	C216	ECEA1HU010	1	50	C311	ECFT1C333MD	0.033	16
C118	ECFT1C473MD	0.047	16	C217	ECEA1CU100	10	16	C312	ECEA1CU220	22	16
C119	ECEA1HU010	1	50	C218	ECFT1C473MDY	0.047	16	C313	ECEA1HU4R7	4.7	50
C120	RCBS1C103MYY	0.01	16	C219	ECEA1HU010	1	50	C314	ECEA0JU471	470	6.3
C121	ECEA1HUR33	0.33	50	C220	RCBS1C103MYY	0.01	16	C315	ECEA0JU471	470	6.3
C122	RCBS1C332MXY	0.0033	16	C221	ECEA1HUR33	0.33	50	C316	ECEA1CU100	10	16
C123	ECEA1HU0R1	0.1	50	C222	RCBS1C332MXY	0.0033	16	C317	ECEA1CU221B	220	16
C124	RCBS1H102KB	0.001	50	C223	ECEA1HU0R1	0.1	50	C318	RCBS1C103MYY	0.01	16
C125	ECFT1C473MDY	0.047	16	C224	RCBS1H102KB	0.001	50	C321	ECEA1AU221	220	10
C126	RCBS0J223NYY	0.022	6.3	C225	ECFT1C473MD	0.047	16	C322	ECEA1CU222	2200	16
C128	RCBS1H102KB	0.001	50	C226	RCBS0J223NYY	0.022	6.3	C326	ECEA1CU100	10	16
C129	ECEA0JU101B	100	6.3	C228	RCBS1H102KB	0.001	50	C351	ECKT1H103ZF	0.01	50
C130	ECEA1AU470	47	10	C229	ECEA0JU101B	100	6.3	C352	ECKT1H103ZF	0.01	50
C131	RCBS1C103NYY	0.01	16	C230	ECEA1AU470	47	10	C501	ECEA1CU330	33	16
C132	ECEA1AU102	1000	10	C231	RCBS1C103NYY	0.01	16	C502	ECEA1AU102	1000	10
C133	ECFT1C683JDY	0.068	16	C232	ECEA1AU102E	1000	10	[P]			
C134	ECFT1C473MD	0.047	16								

Ref. No.	Part No.	Value
CAPACITORS (VALUE, VOLTAGE)		
C1	RCBS1H470JL	47P 50
C3	RCBS1H100JC	10P 50
C4	RCBS1H102KB	0.001 50
C5	RCBS1H220JC	22P 50
C6	RCBS1H102KB	0.001 50
C7	RCBS1C103MYY	0.01 16
C8	RCBS1H6R8KC	6.8P 50
C9	RCBS1H4R7KC	4.7P 50
C10	RCBS1H180JC	18P 50
C11	RCBS1H470JL	47P 50
C12	RCBS1H180JC	18P 50
C13	RCBS1C103MYY	0.01 16
C14	RCBS0J223NYY	0.022 6.3
C16	ECFT1C223MD	0.022 16
C17	RCBS1H331KBY	330P 50
C18	ECFT1C223MD	0.022 16
C19	ECEA0JU221	220 6.3
C20	RCBS1C103MYY	0.01 16
C21	RCBS1C103MYY	0.01 16
C22	RCBS0J223NYY	0.022 6.3
C23	ECEA1CU100	10 16
C24	ECFT1C223MD	0.022 16
C25	ECEA1HU010	1 50
C27	ECEA1HU010	1 50
C29	ECFT1C223MDY	0.022 16
C30	ECEA1HU010	1 50
C31	ECFT1C223MDY	0.022 16
C32	RCBS0J153MYY	0.015 6.3
C33	ECQP1102JZT	1000P 100
C34	ECEA1HUR47B	0.47 50
C35	ECEA1HUR47B	0.47 50
C36	ECEA1HU2R2	2.2 50
C37	RCBS1H102KB	0.001 50
C39	RCBS1H102KB	0.001 50

■ REPL

Notes : * I
C
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* B
F
* [

Ref. No.
INTEGRATE
IC1
IC2
IC3
IC4
IC5
IC6
TRANSISTO
Q100
Q101
Q102
Q200
Q201
Q202
Q300
Q301
Q302
Q303
Q304
Q305
Q501
Q502
Q510
DIODES
D1
D301
D302
D310
D351 ⚠
D352 ⚠
D510
D511
D512

Ref. No.
PACKING MA
P1
P2
P3

RX-CT830

components

Tolerance
: ±5%
: ±1%
: ±2%
: ±5%
: ±10%
: ±20%

Tolerance
: ±10%
: ±20%
: + 80% -20
: ±5%
: ±2%
: ±1%
: ±0.25pF
: ±0.5pF

Value	
	1/4
K	1/4
	1/4
	1/4
	1/4
	1/4
	1/4
	1/4
K	1/4
K	1/4
E)	
	50
	50
01	50
	50
01	50
	16
P	50
P	50
	50
	50
	50
	16
22	6.3
22	16
P	50
22	16
	6.3
	16
	16
22	6.3
	16
22	16
	50
	50
22	16
	50
2	16
5	6.3
OP	100
	50
	50
	50
1	50
1	50

Ref. No.	Part No.	Value		Ref. No.	Part No.	Value		Ref. No.	Part No.	Value	
C40	ECEA1HU2R2	2.2	50	C135	ECEA1HU010	1	50	C233	ECFT1C683MD	0.068	16
C102	RCBS1H471KB	470P	50	C137	ECEA1HU0R1	0.1	50	C234	ECFT1C473MD	0.047	16
C104	ECEA1H010B	1	50	C202	RCBS1H471KB	470P	50	C235	ECEA1HU010	1	50
C105	RCBS1H681KBY	680P	50	C204	ECEA1HU010	1	50	C237	ECEA1HU0R1	0.1	50
C106	ECFT1C104KDY	0.1	16	C205	RCBS1H681KBY	680P	50	C300	ECEA1CU100	10	16
C107	ECEA1CU100	10	16	C206	ECFT1C104KDY	0.1	16	C301	ECEA0JU221	220	6.3
C108	RCBS1H102KB	0.001	50	C207	ECEA1CU100	10	16	C302	ECCT1H181K	180P	50
C109	RCBS1H471KB	470P	50	C208	RCBS1H102KB	0.001	50	C303	ECKT1H103ZF	0.01	50
C110	ECEA1AU470B	47	10	C209	RCBS1H471KB	470P	50	C304	ECQP1272JZ	2700P	100
C111	ECEA1CU100	10	16	C210	ECEA1AU470	47	10	C305	ECEA0JU221	220	6.3
C112	RCBS0J153MYY	0.015	6.3	C211	ECEA1CU100	10	16	C306	RCBS1C682MX	0.0068	16
C113	RCBS1H102KB	0.001	50	C212	RCBS0J153MYY	0.015	6.3	C307	RCBS1H102KB	0.001	50
C114	ECEA1HU010	1	50	C213	RCBS1H102KB	0.001	50	C308	ECFT1C473MD	0.047	16
C115	RCBS1H471KB	470P	50	C214	ECEA1HU010	1	50	C309	RCBS1H102KB	0.001	50
C116	ECEA1HU010	1	50	C215	RCBS1H471KB	470P	50	C310	ECEA1HU010	1	50
C117	ECEA1CU100	10	16	C216	ECEA1HU010	1	50	C311	ECFT1C333MD	0.033	16
C118	ECFT1C473MD	0.047	16	C217	ECEA1CU100	10	16	C312	ECEA1CU220	22	16
C119	ECEA1HU010	1	50	C218	ECFT1C473MDY	0.047	16	C313	ECEA1HU4R7	4.7	50
C120	RCBS1C103MYY	0.01	16	C219	ECEA1HU010	1	50	C314	ECEA0JU471	470	6.3
C121	ECEA1HUR33	0.33	50	C220	RCBS1C103MYY	0.01	16	C315	ECEA0JU471	470	6.3
C122	RCBS1C332MXY	0.0033	16	C221	ECEA1HUR33	0.33	50	C316	ECEA1CU100	10	16
C123	ECEA1HU0R1	0.1	50	C222	RCBS1C332MXY	0.0033	16	C317	ECEA1CU221B	220	16
C124	RCBS1H102KB	0.001	50	C223	ECEA1HU0R1	0.1	50	C318	RCBS1C103MYY	0.01	16
C125	ECFT1C473MDY	0.047	16	C224	RCBS1H102KB	0.001	50	C321	ECEA1AU221	220	10
C126	RCBS0J223NYY	0.022	6.3	C225	ECFT1C473MD	0.047	16	C322	ECEA1CU222	2200	16
C128	RCBS1H102KB	0.001	50	C226	RCBS0J223NYY	0.022	6.3	C326	ECEA1CU100	10	16
C129	ECEA0JU101B	100	6.3	C228	RCBS1H102KB	0.001	50	C351	ECKT1H103ZF	0.01	50
C130	ECEA1AU470	47	10	C229	ECEA0JU101B	100	6.3	C352	ECKT1H103ZF	0.01	50
C131	RCBS1C103NYY	0.01	16	C230	ECEA1AU470	47	10	C501	ECEA1CU330	33	16
C132	ECEA1AU102	1000	10	C231	RCBS1C103NYY	0.01	16	C502	ECEA1AU102	1000	10
C133	ECFT1C683JDY	0.068	16	C232	ECEA1AU102E	1000	10	[P]			
C134	ECFT1C473MD	0.047	16								

■ REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)
Parts without these indications can be used for all areas.
* [M] Indicates parts that are supplied by **MESA.**

Ref. No.	Part No.	Description	
INTEGRATED CIRCUITS			
IC1	AN7205	I.C, FRONT END	
IC2	BA4236L	I.C, FM/AM I.F.	
IC3	RVIBA1332L	I.C, FM MPX	
IC4	AN7312	I.C, PRE AMP/ALC	
IC5	BA3822LS	I.C, G. EQ. AMP.	
IC6	LA4108R	I.C, POWER AMP.	
TRANSISTOR			
Q100	2SC1684STA	TRANSISTOR	
Q101	2SC1684STA	TRANSISTOR	
Q102	2SC1684RTA	TRANSISTOR	
Q200	2SC1684STA	TRANSISTOR	
Q201	2SC1684STA	TRANSISTOR	
Q202	2SC1684RTA	TRANSISTOR	
Q300	2SC1684RTA	TRANSISTOR	
Q301	2SC1684STA	TRANSISTOR	
Q302	2SA564RTA	TRANSISTOR	
Q303	2SC1684STA	TRANSISTOR	
Q304	2SC1684RTA	TRANSISTOR	
Q305	2SC2001	TRANSISTOR	
Q501	2SC1684RTA	TRANSISTOR	
Q502	2SK301QTA	TRANSISTOR	[M]
Q510	2SC2001	TRANSISTOR	
DIODES			
D1	RVD1SS133	DIODE	
D301	RVD1SS133	DIODE	
D302	RVDMTZ6R8B	DIODE	
D310	RVDSL55VR3FT	L.E.D.	[M]
D351 ⚠	RVD1SR35	DIODE	
D352 ⚠	RVD1SR35	DIODE	
D510	RVDSL55MG3FT	L.E.D.	[M]
D511	RVDSL55MG3FT	L.E.D.	[M]
D512	RVDMTZ4R7BTA	DIODE	[M]

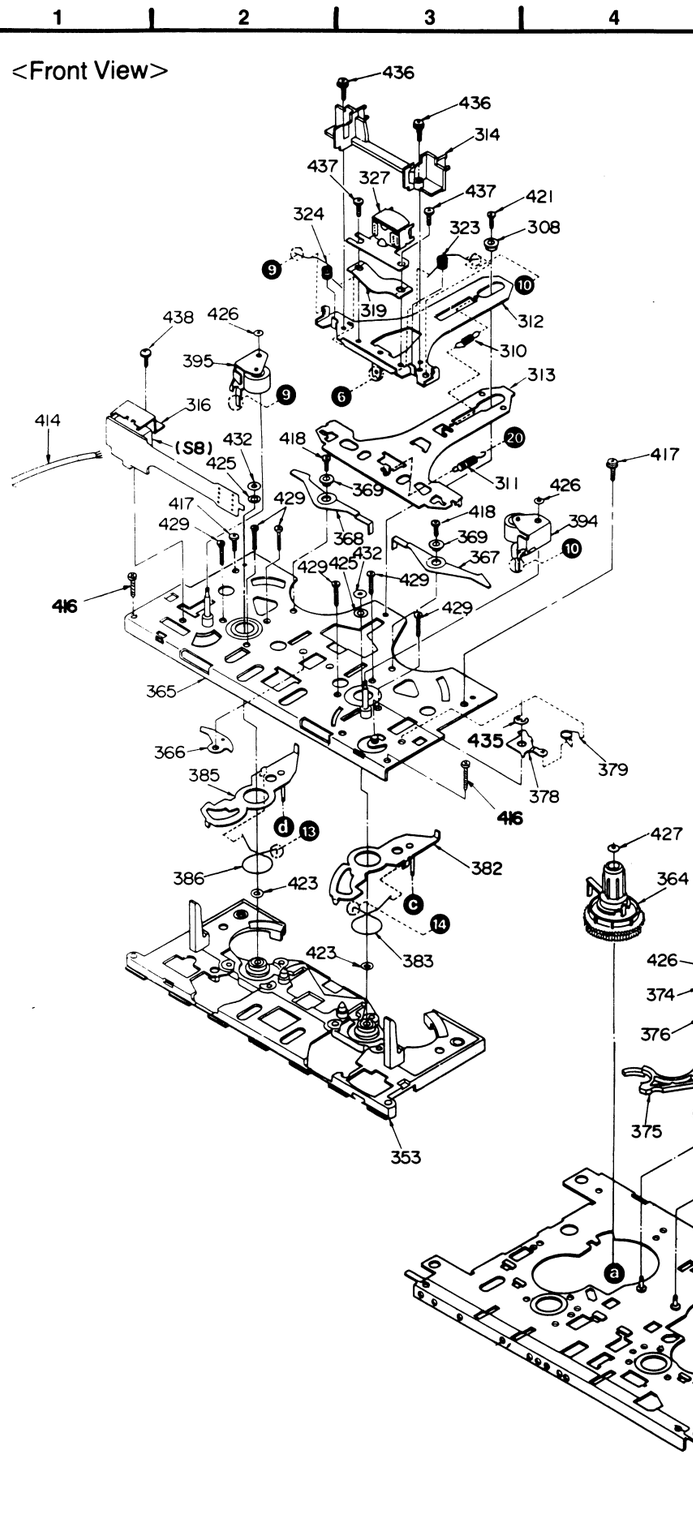
Ref. No.	Part No.	Description	
VARIABLE RESISTOR			
VR1	RVNCA14B1T-A	V.R. FM MPX ADJ	[M]
VR301	RVV2I4G54A	V.R.G. EQ. (100 Hz)	[M]
VR302	RVV2I4G54A	V.R.G. EQ. (330 Hz)	[M]
VR303	RVV2I4G54A	V.R.G. EQ. (1 kHz)	[M]
VR304	RVV2I4G54A	V.R.G. EQ. (3.3 kHz)	[M]
VR305	RVV2I4G54A	V.R.G. EQ. (10 kHz)	[M]
VR307	RVV2I3B54A	V.R. VOLUME	[M]
VR501	RVNCA53B1T-A	V.R. TAPE SPEED	[M]
VARIABLE CAPACITOR			
VC1	RCV4PCT0V1-A	VARIABLE CAPACITOR	[M]
COILS AND TRANSFORMERS			
L1	RLQY30S1	COIL	
L3	RLF2C70-0Z	COIL	[M]
L5	RLO2B105	COIL	
L6	RLD4Y53	COIL	
L101	RLQZP1ROKT-Y	COIL	
L201	RLQZP1ROKT-Y	COIL	
L301	RLO9B17	COIL	
T1	RLI4B153	I.F. TRANSFORMER	
T2	RLI2B458	I.F. TRANSFORMER	
T3	RLI4B153	I.F. TRANSFORMER	
T501 ⚠	RWEXCT830P	POWER TRANSFORMER	[M]
FILTERS			
CF1	RVF107WDZ	CERAMIC FILTER	
CF2	RVF455RB-D	CERAMIC FILTER	
SWITCHES			
S1	RST3D28ZA-H	SW, SELECTOR	[M]
S2	RST3B35ZA-H	SW, EDITING/FM MODE/B.P.	[M]
S3	RST2B54ZA-H	SW, BAND	[M]
S4	RSH2F18ZA-A	SW, R/P	
S6	RFA85ZA	SW, Motor (DECK 2)	
S7	RFA92ZA	SW, Motor (DECK 1)	
S8	RFA63ZA	SW, FWD/REV	
OTHERS			
J1	RJJD7S2YA-C	JACK, HEADPHONES	
J2 ⚠	RJJ1A3Y	JACK, W/SW (S5)	

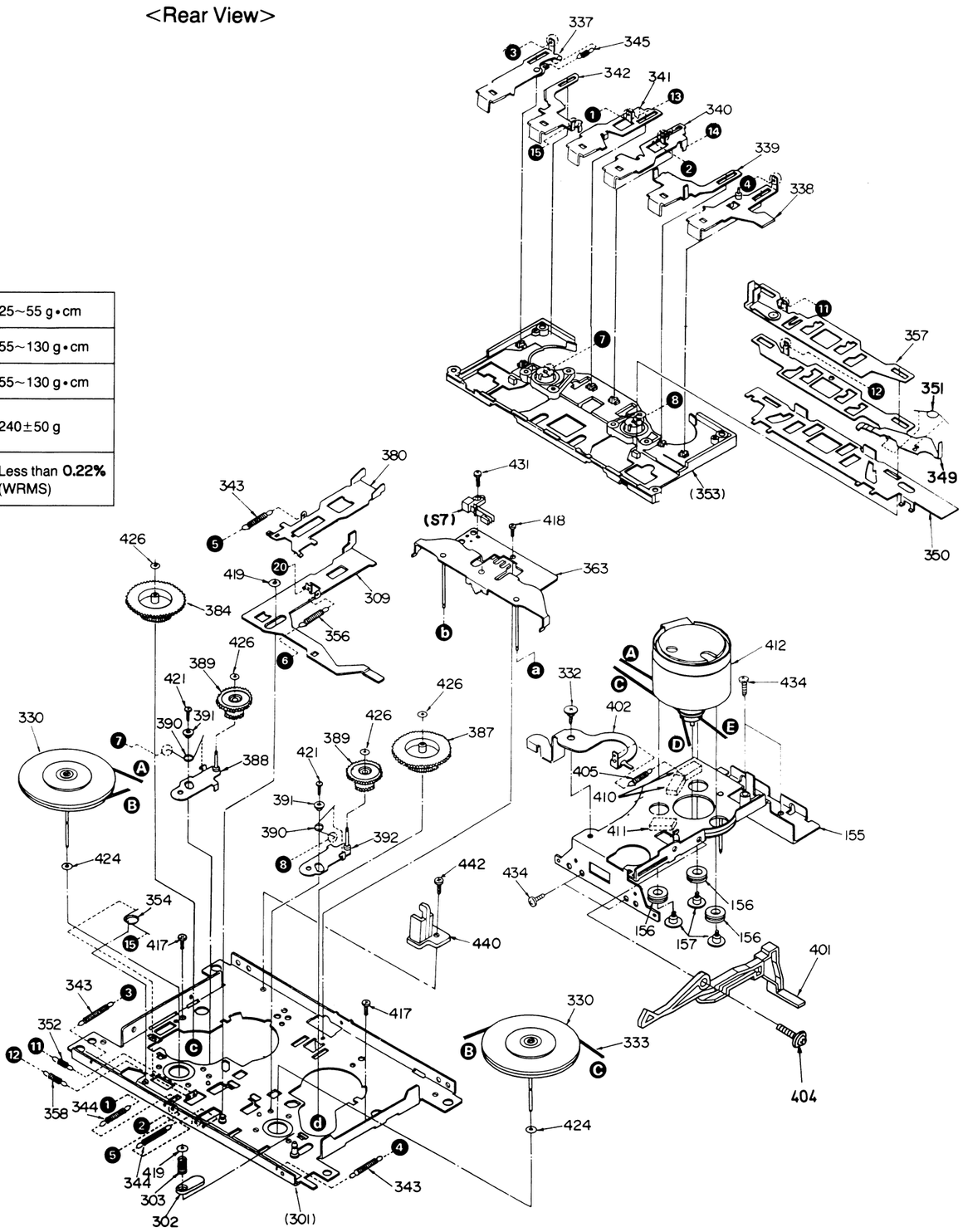
Ref. No.	Part No.	Description	
PACKING MATERIAL			
P1	RPH657ZA	SHEET	[M]
P2	RPN9585ZA	PAD	[M]
P3	RPK2853ZA	GIFT BOX	[M]

Ref. No.	Part No.	Description	
ACCESSORIES			
A1 ⚠ [P]	RJA22X	POWER CORD	
A1 ⚠ [PC]	RJA22Y	POWER CORD	
A2 [P]	RQX5271ZA	INST. MANUAL	[M]
A2 [PC]	RQX5272ZA	INST. MANUAL	[M]

RX-CT830
RX-CT830

MECHANISM PARTS LOCATION DECK 1 (For Playback)



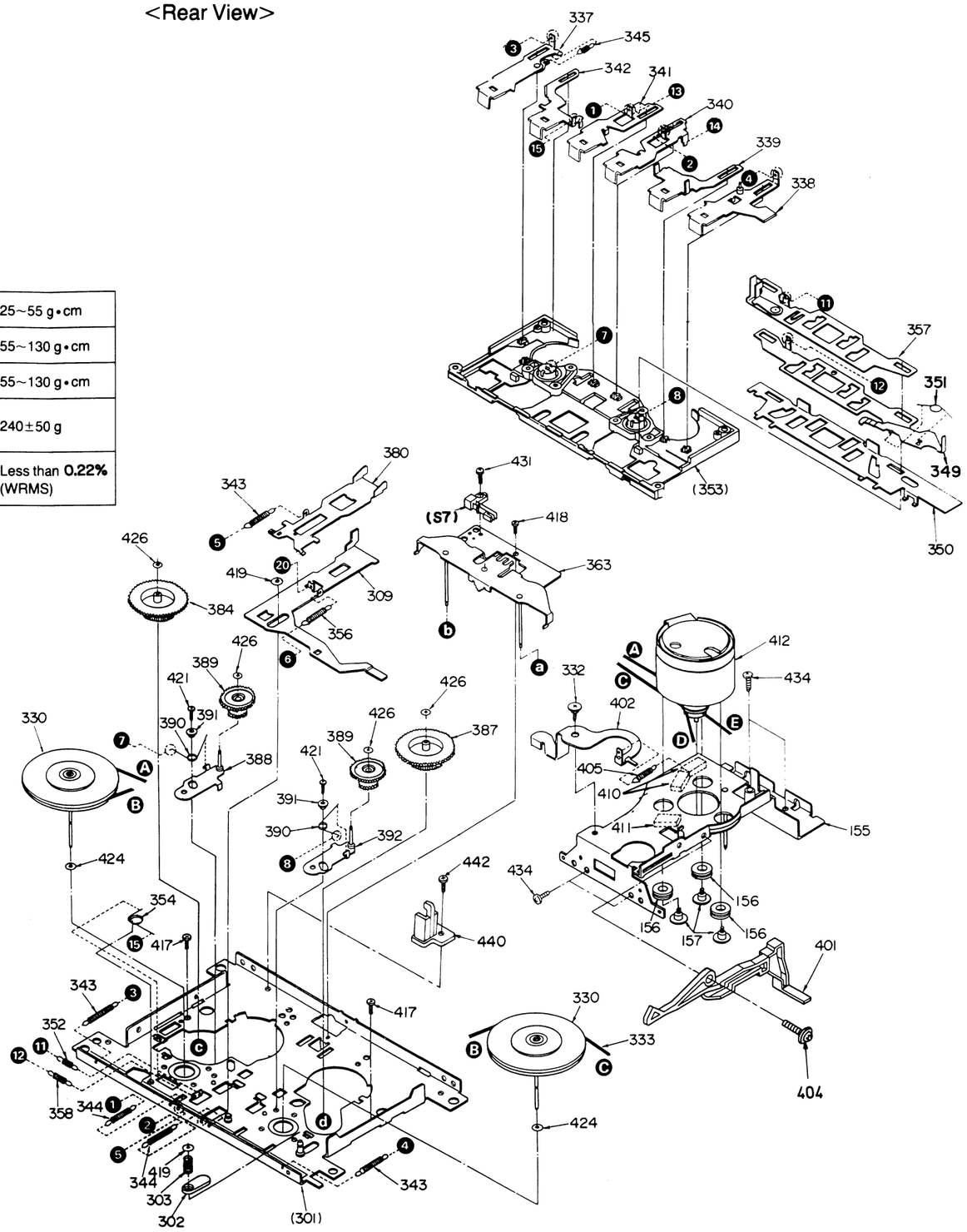


Specifications

Playback torque	25~55 g • cm
Fast Forward torque	55~130 g • cm
Rewind torque	55~130 g • cm
Pressure of pinch roller	240±50 g
Wow and flutter	Less than **0.22%** (WRMS)

6 7 8 9 10 11 12

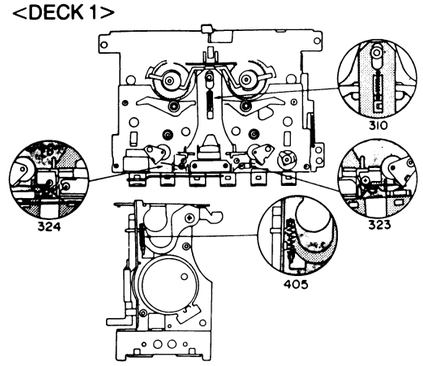
<Rear View>

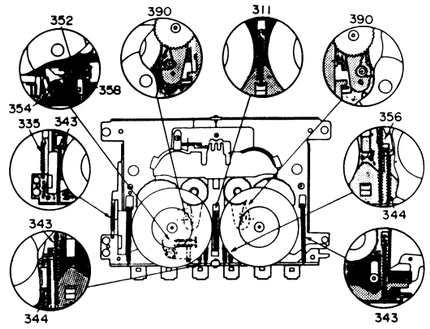


	25~55 g•cm
rque	55~130 g•cm
	55~130 g•cm
	240±50 g
	Less than **0.22%** (WRMS)

■ SPRING LOCATION

<DECK 1>





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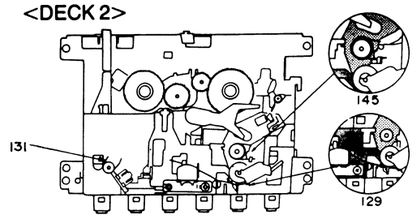
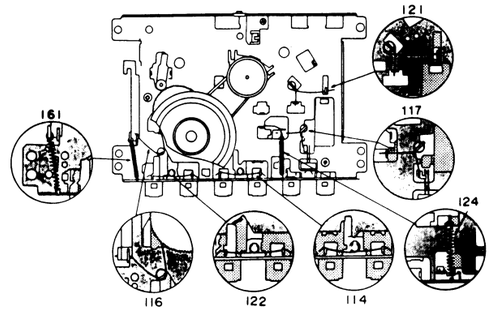
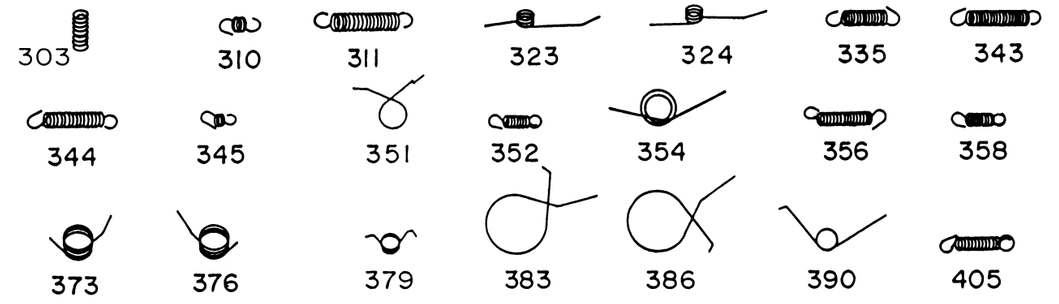




■ SPRING ILLUSTRATION

The illustration shows the actual size of the springs so it can be used to check their shapes.
(The illustration shows the springs separated from the mechanism).

<DECK 1>



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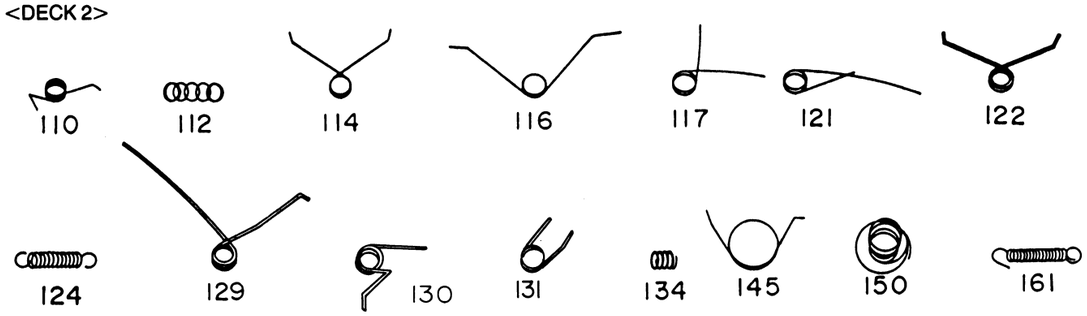
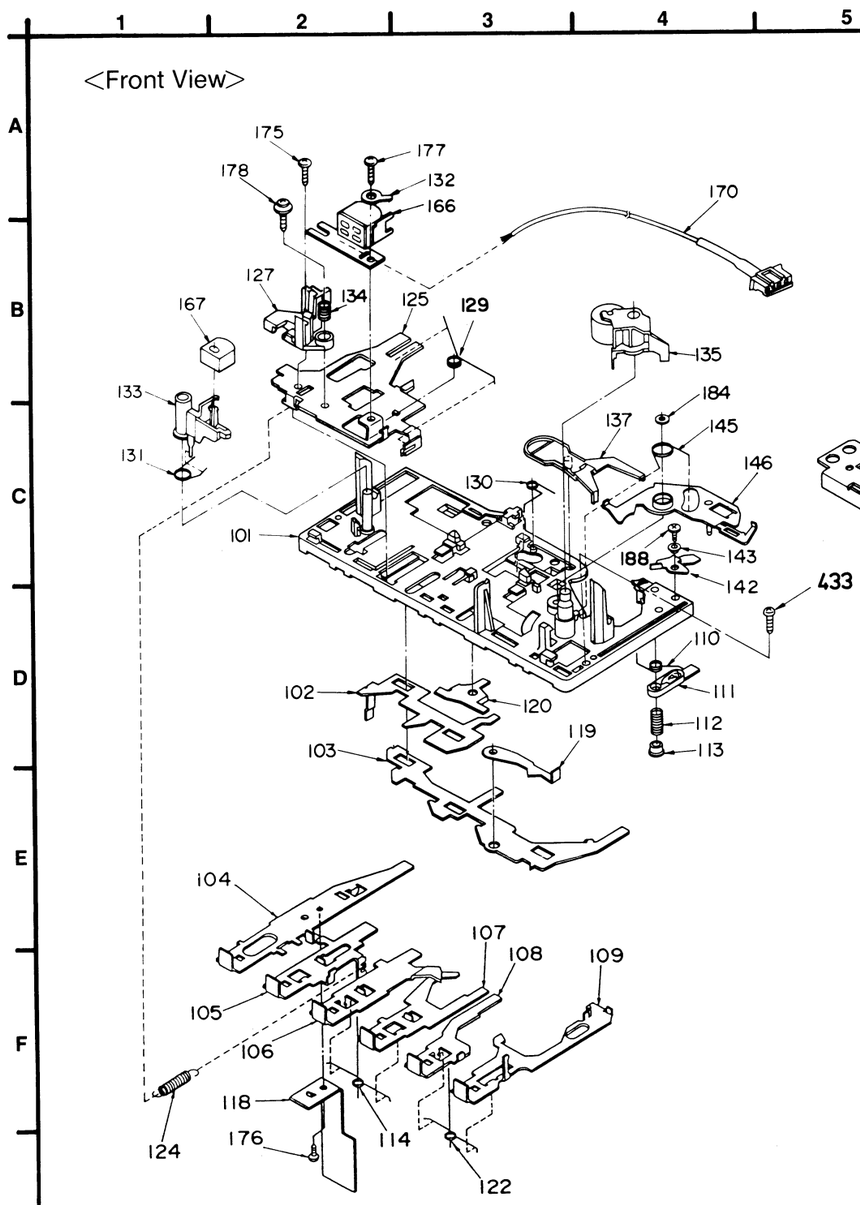
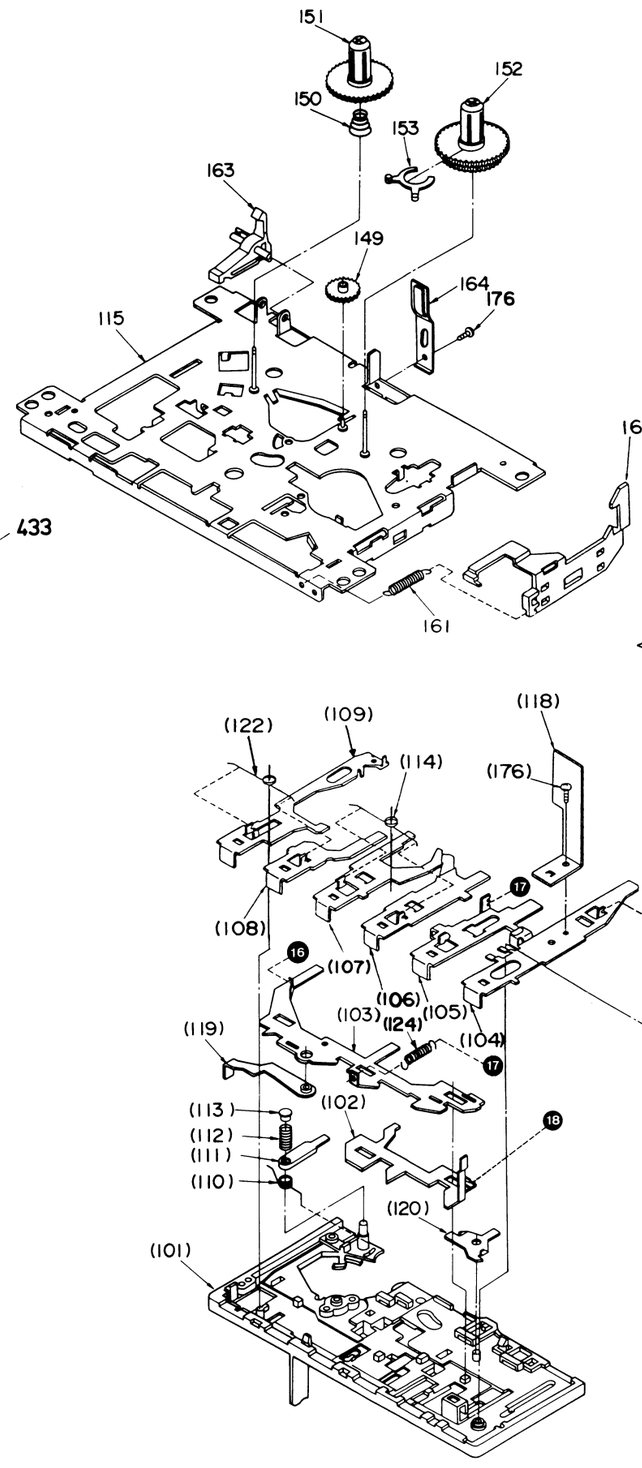
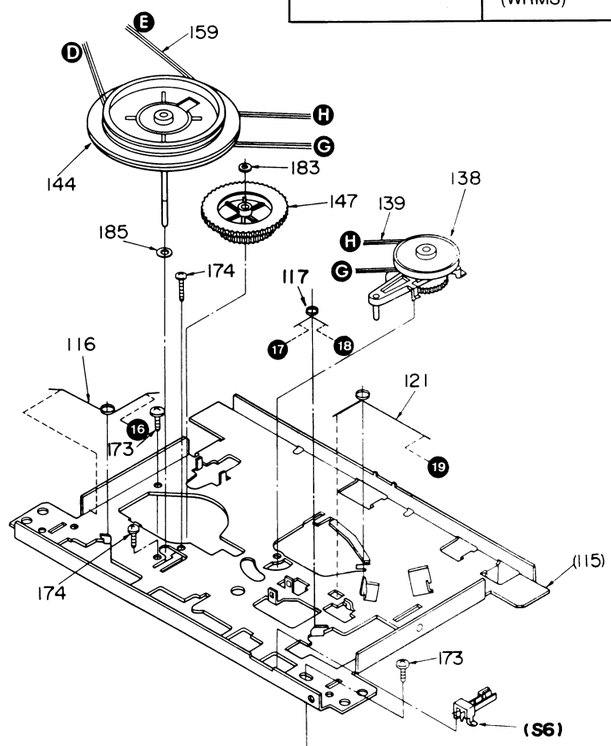


MECHANISM PARTS LOCATION DECK 2 (For Recording and Playback)





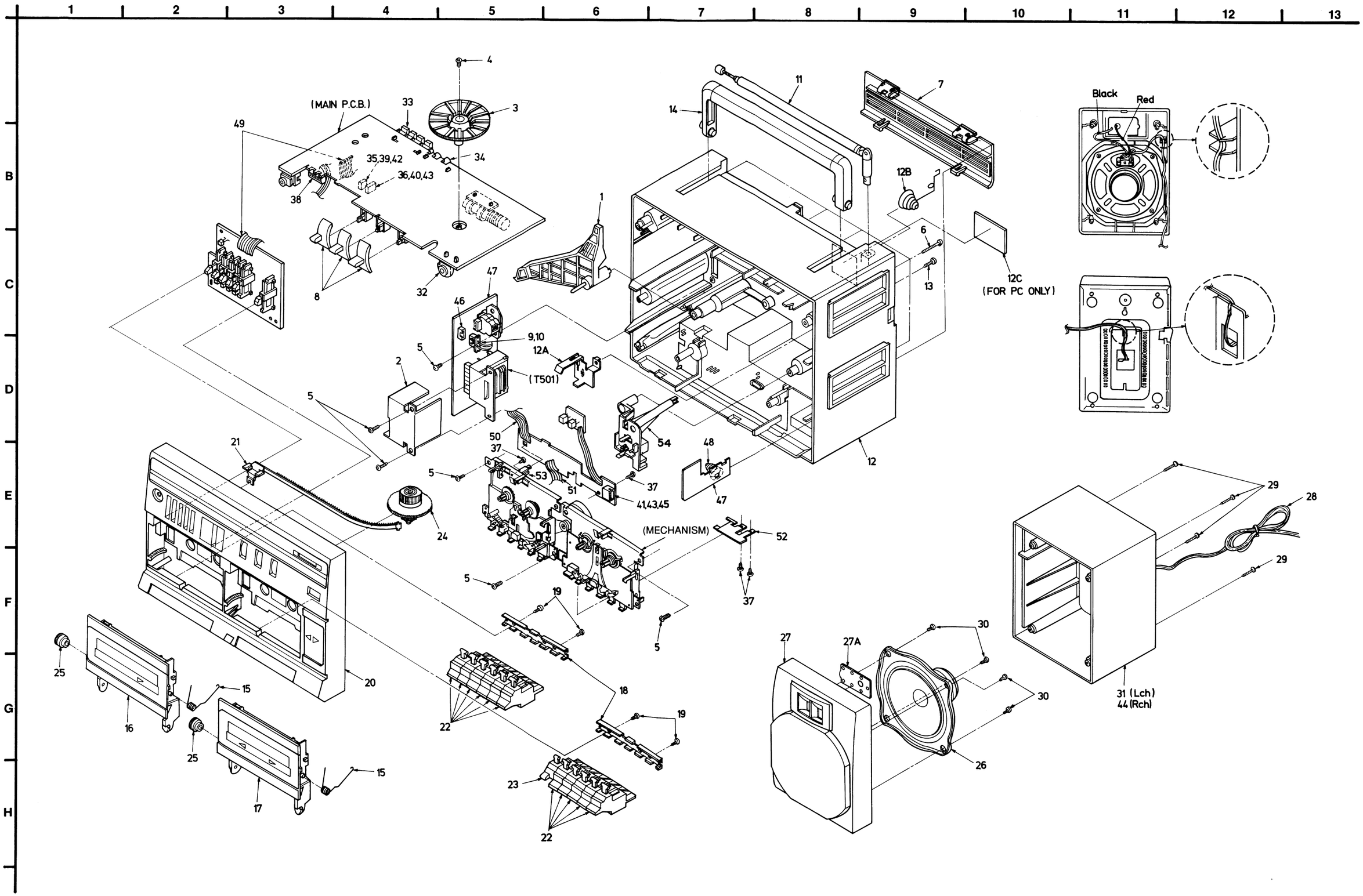
<Rear View>



Specification

Playback torque	25~55 g·cm
Fast Forward torque	55~130 g·cm
Rewind torque	55~130 g·cm
Pressure of pinch roller	300±50 g
Wow and flutter	Less than 0.22% (WRMS)

CABINET PARTS LOCATION



Ref. No.	Part No.	Description	
CABINET AND CHASSIS			
1	RUB565ZA	LEVER	[M]
2	RMC1249ZA	SHIELD PLATE	[M]
3	RDG5840ZA	GEAR	
4	XYN26+C6	SCREW	
5	XTV3+12G	SCREW	
6	XTV3+20G	SCREW	
7	RKK2SZA-0	BATTERY COVER	[M]
8	RBD562ZA-0	KNOB, SELECTOR	[M]
9	RJS2L3Z	SOCKET (2P)	
10	RJT707Z	CONTACT	
11	XEARR225DA-Y	TELESCOPIC ANTENNA	
12 [P]	RYFXCT830P	REAR CABINET ASS'Y	[M]
12 [PC]	RYFXCT830PC	REAR CABINET ASS'Y	[M]
12A	RJT1137ZA	ANTENNA PLATE	[M]
12B	RJC931Z	BATTERY TERMINAL (+/–)	
12C [PC]	RGT24SZA-0	NAME PLATE	[M]
13	XYN3+F8FY	SCREW	
14	RKX4SZA-0	HANDLE	[M]
15	RUS781ZA	SPRING	[M]
16	RYQ1XCT830P	CASSETTE LID ASS'Y	[M]
17	RYQ2XCT830P	CASSETTE LID ASS'Y	[M]
18	RMD2072ZA	ANGLE	[M]
19	XTV3+8G	SCREW	
20	RYMXCT830P	FRONT CABINET ASS'Y	[M]
21	RYEXCT800P	POINTER ASS'Y	[M]
22	RBC1396ZA-0	BUTTON, MECHANISM	[M]
23	RBS5SZA-0	BUTTON, REVERSE MODE	[M]
24	RBT283ZD-0	KNOB, TUNING	[M]
25	RDG5782Y	GEAR	[M]
26	RAS12P18ZA-F	SPEAKER	[M]
27	RYM1XCT830P	S.P. FRONT CABINET ASS'Y	[M]
27A	RYE1XCT800P	TWEETER ASS'Y	[M]
28	RJE297ZA	SPEAKER CORD	[M]
29	XTV3+20G	SCREW	
30	XTV3+8G	SCREW	
31	RKF965ZA-0	S.P. BOX (L)	[M]
32	RJM164YA	CONDENSER MICROPHONE	[M]
33	RJF1098Z	JACK, SPEAKER	[M]
34	RJF1099YA-C	JACK, LINE IN	
35	RJP4G18ZA	CONNECTOR (4P)	
36	RJP5G18Z	CONNECTOR (5P)	
37	XTN2+4F	SCREW	
38	SJT30543–V	TERMINAL	
39	RJS4L4Z	SOCKET (4P)	
40	RJS5L4Z	SOCKET (5P)	
41	RJS6L4ZA-X	SOCKET (6P)	
42	RJT807ZB-X	CONTACT	
43	RJT807ZA-X	CONTACT	
44	RKF965YA-0	S.P BOX (R)	[M]
45	RJP6G17ZA	CONNECTOR (6P)	
46	RJP2G4Y	CONNECTOR (2P)	
47	RUP2540ZAC	P.C.B.	[M]
48	RJC511ZBS	BATTERY SPRING (–)	[M]
49	WBB8CB-16KK	FLAT CABLE	[M]
50	WBB5CB-8K1M	FLAT CABLE	[M]
51	WBB4CB-8.5K1	FLAT CABLE	[M]
52	RMC3SZB	SHIELD PLATE	[M]
53	RUE83ZA	ANGLE	[M]
54	RUV5SZA	L.E.D FIXTURE	[M]

Ref. No.	Part No.	Description	
MECHANISM			
CASSETTE DECK			
101	RFU178ZA	CHASSIS	
102	RFY866ZA	PLATE	
103	RFY867ZA	PLATE	
104	RFY868ZA	BUTTON LEVER	
105	RFY869ZA	BUTTON LEVER	
106	RFY870ZA	BUTTON LEVER	
107	RFY871ZA	BUTTON LEVER	
108	RFY925ZA	LEVER	[M]
109	RFY873ZA	BUTTON LEVER	
110	RFS837ZA	SPRING	
111	RFG151ZA	PAUSE CAM	[M]
112	RFS813ZA	SPRING	
113	RFX174ZA	STOPPER	
114	RFS814ZA	SPRING	
115	RFU155ZA	CHASSIS ASS'Y	
116	RFS815ZA	SPRING	
117	RFS816ZA	SPRING	
118	RFE523ZA	REC SP PLATE	
119	RFY928ZA	LEVER	
120	RFX175ZA	STOPPER	
121	RFS817ZA	SPRING	
122	RFS818ZA	SPRING	
124	RFS530ZA	SPRING	
125	RFU176ZA	HEAD PANEL	
127	RFU168ZA	HEAD BASE	
129	RFS819ZA	SPRING	
130	RFS820ZA	SPRING	
131	RFS821ZA	SPRING	
132	RFE228ZA	LUG PLATE	
133	RFY913ZA	MG ARM	
134	RFS447ZA	SPRING	
135	RFR64ZA	PINCHROLLER ASS'Y	[M]
137	RFY884ZA	LEVER	
138	RFQ61ZA	CLUTCH ASS'Y	
139	RFB115ZA	RF BELT	[M]
142	RFD396ZA	ARM	
143	RFY877ZA	COLLAR	
144	RFF69ZA	FLYWHEEL ASS'Y	
145	RFS822ZA	SPRING	
146	RFY874ZA	PLATE ASS'Y	
147	RFG136ZA	CAM GEAR	
149	RFG110ZA	GEAR	
150	RFS838ZA	SPRING	
151	RFJ89ZA	REEL ASS'Y	[M]
152	RJF90ZA	REEL ASS'Y	[M]
153	RFY875ZA	SENSER	
155	RFD387ZA	BRACKET	
156	RFI38ZA	RUBBER	
157	RFE534ZA	SCREW	[M]
159	RFB103ZA	BELT	
161	RFS826ZA	SPRING	
162	RFY876ZA	LEVER	
163	RFY716ZA	LEVER	
164	RFS467ZA	SPRING	
166	RBR4CG003-M	R/P HEAD	[M]
167	RBR2CY004-4	E. HEAD	
170	2JSACT800ZA2	HEAD WIRE(DECK2)	[M]
173	RFE416ZA	SCREW	
174	RFE496ZA	SCREW	
175	RFE476ZA	SCREW	
176	RFE472ZA	SCREW	
177	RFE498ZA	SCREW	
178	RFE230ZA	SCREW	
183	RFN83ZA	WASHER	
184	RFN214ZA	WASHER	
185	RFN122ZA	WASHER	
188	RFE535ZA	SCREW	[M]
301	RFU128ZA	CHASSIS ASS'Y	
302	RFY420ZA	LEVER	
303	RFS459ZA	SPRING	
304	RFS467ZA	SPRING	
308	RFX163ZA	COLLAR	
309	RFY813ZA	PLATE	
310	RFS736ZA	SPRING	
311	RFS833ZA	SPRING	
312	RFY817ZA	HEAD PANEL	
313	RFY818ZA	PLATE	
314	RFE417ZA	GUIDE	
316	RFD334ZA	ANGLE	
319	RFS737ZA	SPRING	
323	RFS751ZA	SPRING	
324	RFS752ZA	SPRING	
327	1JH0028ZA	P. HEAD	
330	RFF56ZA	FLYWHEEL ASS'Y	
332	RFE239ZA	SCREW	
333	RFB114ZA	BELT	
334	RFY888ZA	EJECT SLIDE LEVER	
335	RFS726ZA	SPRING	
337	RFY832ZA	LEVER	
338	RFY964ZA	LEVER	[M]
339	RFY828ZA	LEVER	
340	RFY829ZA	LEVER	
341	RFY830ZA	LEVER	
342	RFY831ZA	LEVER	
343	RFS731ZA	SPRING	
344	RFS732ZA	SPRING	

Ref. No.	Part No.	Description	
345	RFS733ZA	SPRING	
349	RFY914ZA	LEVER	
350	RFY804ZA	PLATE	
351	RFS730ZA	SPRING	
352	RFS748ZA	SPRING	
353	RFU130ZA	CHASSIS ASS'Y	
354	RFS734ZA	SPRING	
356	RFS750ZA	SPRING	
357	RFY806ZA	PLATE	
358	RFS747ZA	SPRING	
363	RFU131ZA	PLATE ASS'Y	
364	RFJ87ZA	REEL TABLE	
365	RFU187ZA	SUB CHASSIS ASS'Y	[M]
366	RFY823ZA	ARM	
367	RFY815ZA	ARM	
368	RFY816ZA	ARM	
369	RFX162ZA	COLLAR	
372	RFY798ZA	LEVER	
373	RFS724ZA	SPRING	
374	RFX161ZA	STOPPER	
375	RFY965ZA	LEVER	[M]
376	RFS725ZA	SPRING	
378	RFY801ZA	ARM	
379	RFS727ZA	SPRING	
380	RFY814ZA	PLATE	
382	RFY966ZA	ARM ASS'Y	[M]
383	RFS728ZA	SPRING	
384	RFG111ZA	GEAR	
385	RFY967ZA	ARM (R) ASS'Y	[M]
386	RFS729ZA	SPRING	
387	RFG112ZA	GEAR	
388	RFY819ZA	ARM ASS'Y	
389	RFG113ZA	GEAR	
390	RFS740ZA	SPRING	

Ref. No.	Part No.	Description	
391	RFX164ZA	COLLAR	
392	RFY820ZA	ARM ASS'Y	
394	RFR46ZA	PINCHROLLER ASS'Y	
395	RFR47ZA	PINCHROLLER ASS'Y	
401	RFY879ZA	LEVER	
402	RFY821ZA	LEVER	
404	RFE419ZA	SCREW	
405	RFS741ZA	SPRING	
410	RFI50ZA	CUSHION	
411	RFI57ZA	CUSHION	
412	RFM163ZA	MOTOR ASS'Y	[M]
414	2JSACT800ZB3	HEADWIRE(DECK 1)	[M]
415	RFE420ZA	SCREW	
416	RFE428ZA	SCREW	
417	RFE222ZA	SCREW	
418	RFE426ZA	SCREW	
419	RFN134ZA	WASHER	
421	RFE423ZA	SCREW	
423	RFN122ZA	WASHER	
424	RFN136ZA	WASHER	
425	RFN182ZA	WASHER	
426	RFN133ZA	WASHER	
427	RFN139ZA	WASHER	
428	RFN183ZA	WASHER	
429	RFE427ZA	SCREW	
431	RFE221ZA	SCREW	
432	RFN216ZA	WASHER	
434	RFE425ZA	SCREW	
435	RFE466ZA	E RING	
436	RFE422ZA	SCREW	
437	RFE431ZA	SCREW	
438	RFE421ZA	SCREW	
440	RUE83ZA	HOLDER	[M]

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